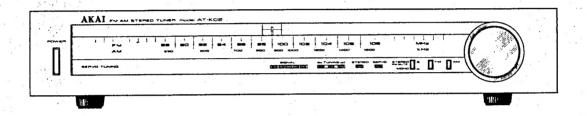
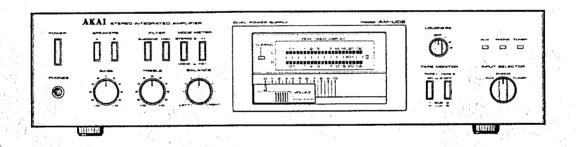
AKAI SERVICE MANUAL





FM AM STEREO TUNER

MODELAT-KO2

STEREO INTEGRATED AMPLFIER

MODELAM-U02



AT-K02



AM-U02

FM AM STEREO TUNER MODELAT-K02 STEREO INTEGRATED AMPLFIER MODELAM-U02

ALSO APPLICABLE TO BLACK PANEL MODEL

SECTION 1	MODEL AT-K02 SERVICE MANUAL 3
SECTION 2	MODEL AM-U02 SERVICE MANUAL 15
SECTION 3	PARTS LIST
SECTION 4	SCHEMATIC DIAGRAM45

SECTION 1

MODEL AT-KO2 SERVICE MANUAL

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	2. COMPOSITION OF VARIOUS P.C BOARDS	3

For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

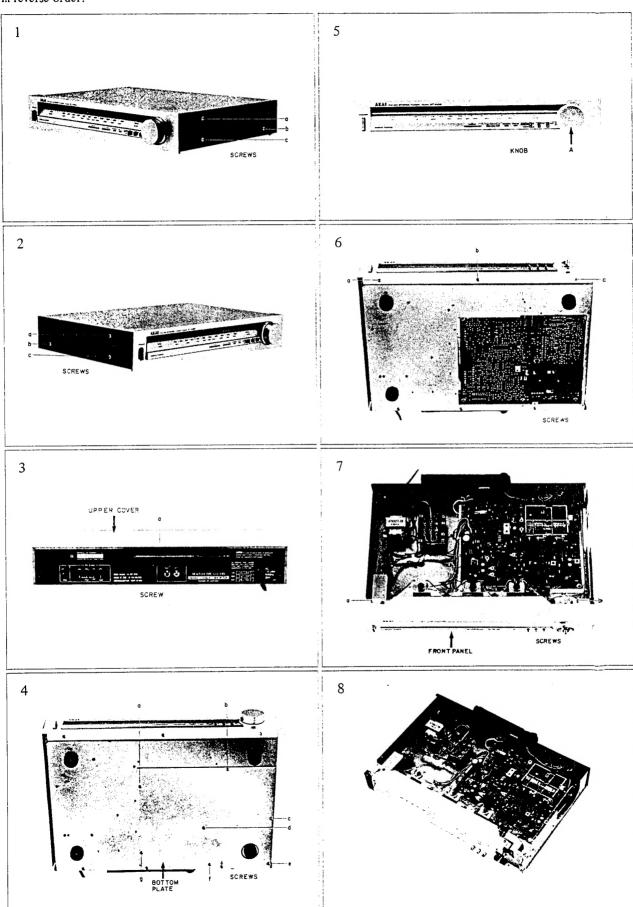
I. TECHNICAL DATA

FM TUNER SECTION	
FREQUENCY RANGE	87.5 MHz to 108 MHz
SENSITIVITY (IHF)	1.9 μV
CAPTURE RATIO	1.2 dB
SELECTIVITY (IHF)	More than 65 dB
IMAGE REJECTION	More than 60 dB (98 MHz)
IF REJECTION	More than 85 dB (98 MHz)
SPURIOUS REJECTION	More than 85 dB (98 MHz)
AM SUPPRESSION	60 dB
SIGNAL TO NOISE RATIO	73 dB
HARMONIC DISTORTION MONO	Less than 0.09% (100% modulation)
STEREO	Less than 0.12% (100% modulation)
TUNING INDICATOR	3 LEDs
SIGNAL INDICATOR	5 LEDs
MUTING	Switchable to ON-OFF
STEREO SEPARATION	More than 52 dB (1 kHz)
SUB CARRIER SUPPRESSION	More than 60 dB
OUTPUT VOLTAGE	Fixed 1 V (100% modulation)
ANTENNA INPUT IMPEDANCE	300 ohms balanced, 75 ohms unbalanced
AM TUNER SECTION	
FREQUENCY RANGE	520 kHz to 1,605 kHz
SENSITIVITY (IHF)	$150 \mu\text{V/m}$ (bar antenna), $10 \mu\text{V}$ (external antenna)
SELECTIVITY (IHF)	More than 30 dB
IMAGE REJECTION	More than 55 dB (1,000 kHz)
IF REJECTION	More than 40 dB
SIGNAL TO NOISE RATIO	More than 55 dB
OUTPUT VOLTAGE	300 mV (30% modulation)
ANTENNA	Built-in ferrite bar antenna
MISCELLANEOUS	
SEMICONDUCTORS	Transistors: 26, Diodes: 13, LED: 6, ICs: 4
POWER REQUIREMENTS	120 V, 60 Hz for U.S.A. and Canada
	220 V, 50 Hz for Europe except UK
	240 V, 50 Hz for UK and Australia
	110/220/240 V, 50/60 Hz internally switchable for the other countries
POWER CONSUMPTION	20 W
DIMENSIONS	440 (W) x 78 (H) x 340 (D) mm (17.3 x 3.1 x 13.4) inches
WEIGHT	4.9 kg (10.8 lbs)

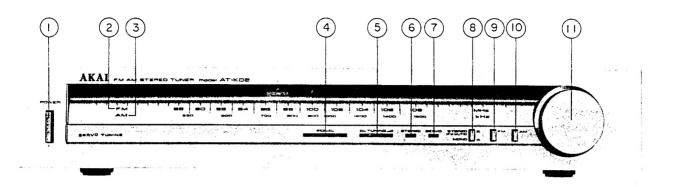
^{*} For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the Photographs. Reassemble in reverse order.



III. CONTROLS



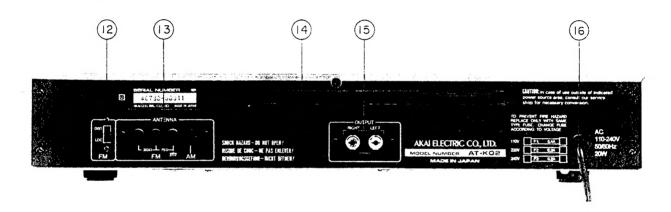


Fig. 1 Controls

- 1. POWER SWITCH
- 2. FM DIAL SCALE
- 3. AM DIAL SCALE
- 4. SIGNAL STRENGTH INDICATOR
- 5. FM CENTER TUNING INDICATOR
- 6. FM STEREO LAMP
- 7. FM SERVO LAMP
- 8. FM MODE SWITCH

- 9. FM SWITCH
- 10. AM SWITCH
- 11. TUNING KNOB
- 12. FM LOC SWITCH
- 13. FM and AM ANTENNA TERMINALS
- 14. AM FERRITE BAR ANTENNA
- 15. OUTPUT JACKS (Left and Right)
- POWER CORD (Some models have power cord inlets instead.)

IV. PRINCIPAL PARTS LOCATION

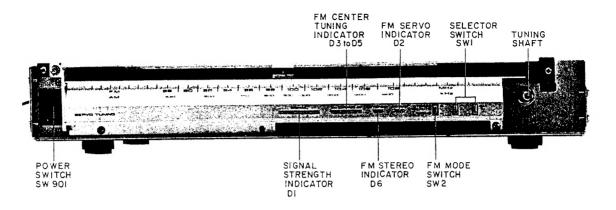


Fig. 2 Front View

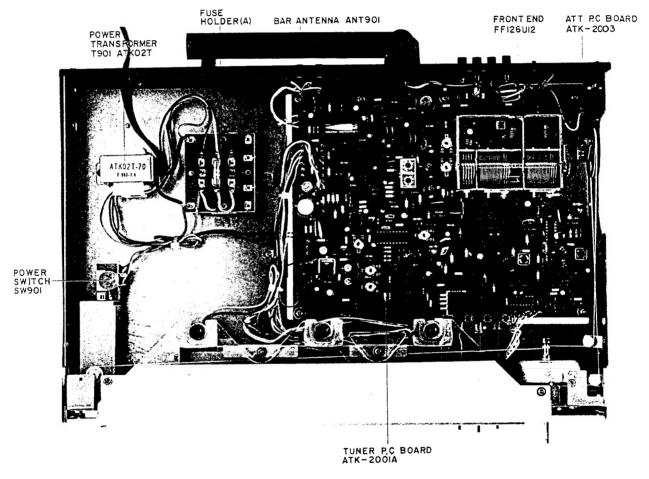
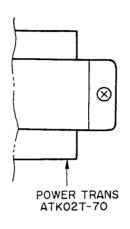


Fig. 3 Top View

V. VOLTAGE CONVERSION

110V AREAS: F1 400mA 220V AREAS: F2 200mA 240V AREAS: F3 200mA



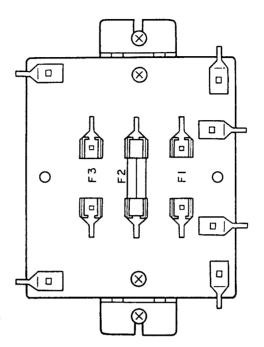


Fig. 4 Fuse Holder (A) (U/T Model)

Models for Canada, USA, Europe, UK and Australia are not equipped with this facility.

Each machine is preset at the factory according to destination but some machines can be set to 110V, 220V or 240V as required.

If voltage change is necessary, this can be accomplished as follows.

- 1) Disconnect AC Power Cord.
- 2) Loosen holding screws and remove upper case.
- 3) Remove existing line voltage fuse in proper fuse holder, explicitly following instructions printed on the rear panel.

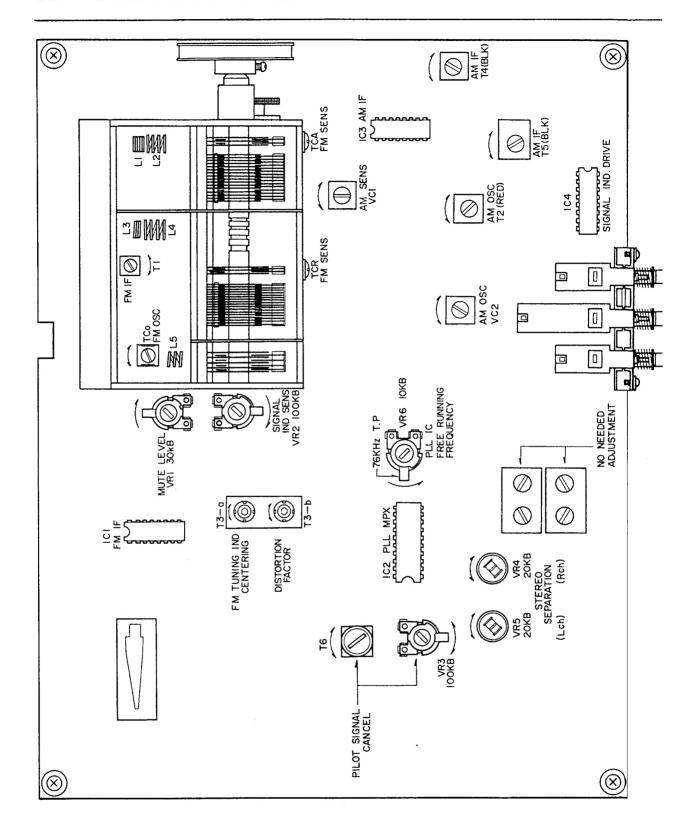


Fig. 5 Tuner P.C Board ATK-2001A

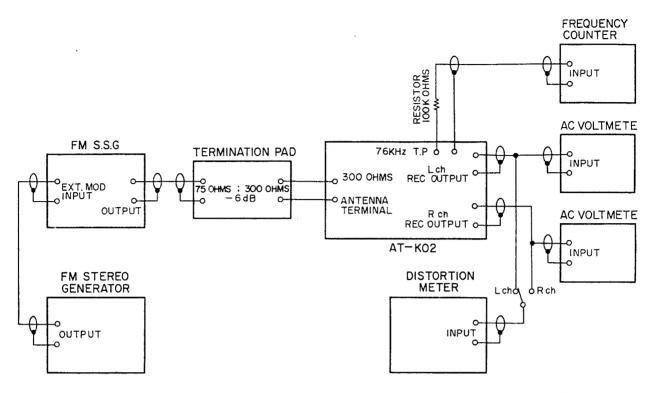


Fig. 6 Instrument Connections

1. FM TUNER SECTION ADJUSTMENT (Refer to Figs. 5, 6)

Step	Adjustment Item	Adjustment Point	Result	Remarks
1	Front End IF Coil	T1 (Front End)	Maximum Noise Level	Selector to FM, and Mode to MONO. Tune in noise only without broadcast interference.
2	Tuning indicator Centering	Т3-а	Center indication of tuning LEDs	98 MHz, 60 dB (mono) input.
3	Distortion Factor	T3-b	Less than 0.09% Distortion Factor	98 MHz, 60 dB (mono) input. Less than 0.09% in both channels.
4	Confirmation of Tuning indicator Centering	i		If Tuning indicator is not centered, re-adjust Steps 2 and 3 above.
5	High Range Scale indication	TCo (Front End)	Maximum output Minimum Distortion Factor	108 MHz, 60 dB (mono) input. Scale indicator to 108 MHz. Error: Within ±250 kHz
6	Confirmation of Low Range Scale indication		Maximum output Minimum Distortion Factor	88 MHz, 60 dB (mono) input. Scale indicator to 88 MHz. Error: Within ±250 kHz
7	High Range Sensitivity	TCR, TCA (Front End)	Less than 3% Distortion Factor	108 MHz, Less than 6 dB (mono) input.
8	Confirmation of Low Range Scale indication		Less than 3% Distortion Factor	88 MHz, Less than 6 dB (mono) input. Refer to NOTES 2, 3.
9	Mute level	VR1 30 kB	No Signal emitted from output	Mode to STEREO. 98 MHz, 22 dB (mono) input.

10	PLL IC Free Running Frequency	VR6 10 kB	76.00 kHz	Frequency Counter to Test Point. Refer to NOTES 4, 5.
11	Confirmation of Stereo indicator Lighting			98 MHz, 60 dB (stereo) input. No lighting of stereo indicator indicates no stereo separation.
12	Pilot Signal Cancel	VR3 100 kB L6	Minimum output	98 MHz, 60 dB (stereo) pilot signal only input.
13	Stereo Separation (Left → Right)	VR5 20 kB	More than 52 dB	98 MHz, 60 dB (stereo) Lch input. Minimum output of Rch.
14	Stereo Separation (Right → Left)	VR4 20 kB	More than 52 dB	98 MHz, 60 dB (stereo) Rch input. Minimum output of Lch.
15	Signal indicator Sensitivity	VR2 100 kB	98 MHz, 50 dB (mono) input. Adjust VR2 to a point where 5th LED of SIGNAL INDICATOR lights up. Refer to NOTE 6.	

Chart-1

NOTES: 1. Set the FM ANTENNA ATT. switch to DIST.

- 2. When the specified sensitivity of 6 dB cannot be obtained at the two frequency points, 88 MHz and 108 MHz repeat adjustment as in Step 7.
- 3. When the distortion factor of the sensitivity still does not comply with the data specifications, adjust by turning the Front End FM IF coil (T1) core but not more than 1/2 turn.
- 4. When connecting a frequency counter, connect from TP via a 100 kohms resistor.
- 5. The free Running Frequency of the PLL IC must be an exactly 76.00 kHz.
- 6. The 5th LED lights up at 50 dB but when the attenuator is decreased 2 dB it is extinguished.

BAR ANTENNA CORE

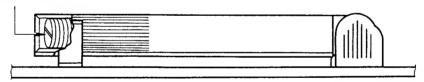


Fig. 7 Bar Antenna

2. AM TUNER SECTION ADJUSTMENT (Refer to Figs. 5, 7)

Step	Adjustment Item	Adjustment Point	Result	Remarks
1	Low Range Scale indication	T2 (RED)	Maximum Output	Selector to AM. 530 kHz 50 dB input. Error: Within 2%
2	Low Range Sensitivity	T4 (BLK) T5 (BLK) Bar Antenna Core	Maximum Output Minimum Distortion Factor	530 kHz 50 dB input. Less than 10% Distortion Factor
3	High Range Scale indication	VC 2	Maximum Output	1,600 kHz 50 dB input. Error: Within 2%
4	High Range Sensitivity	VC 1	Maximum Output Minimum Distortion Factor	1,600 kHz 50 dB input. Less than 10% Distortion Factor

Chir t-2

NOTE: For best results, repeat Steps 1 through 4 two or three times.

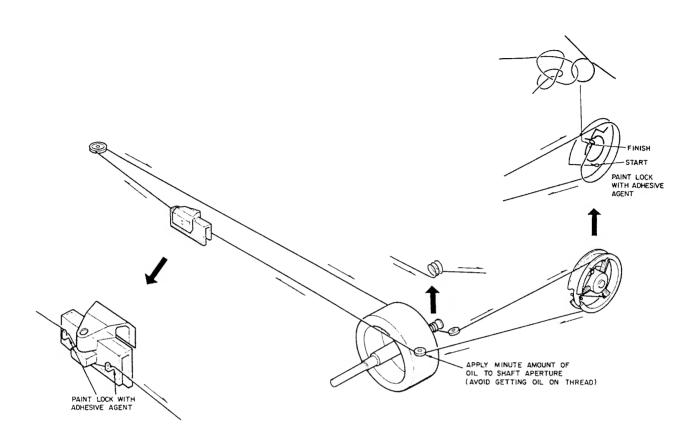


Fig. 8 Tuning Cord Threading

VIII. CLASSIFICATION OF VARIOUS P.C BOARDS

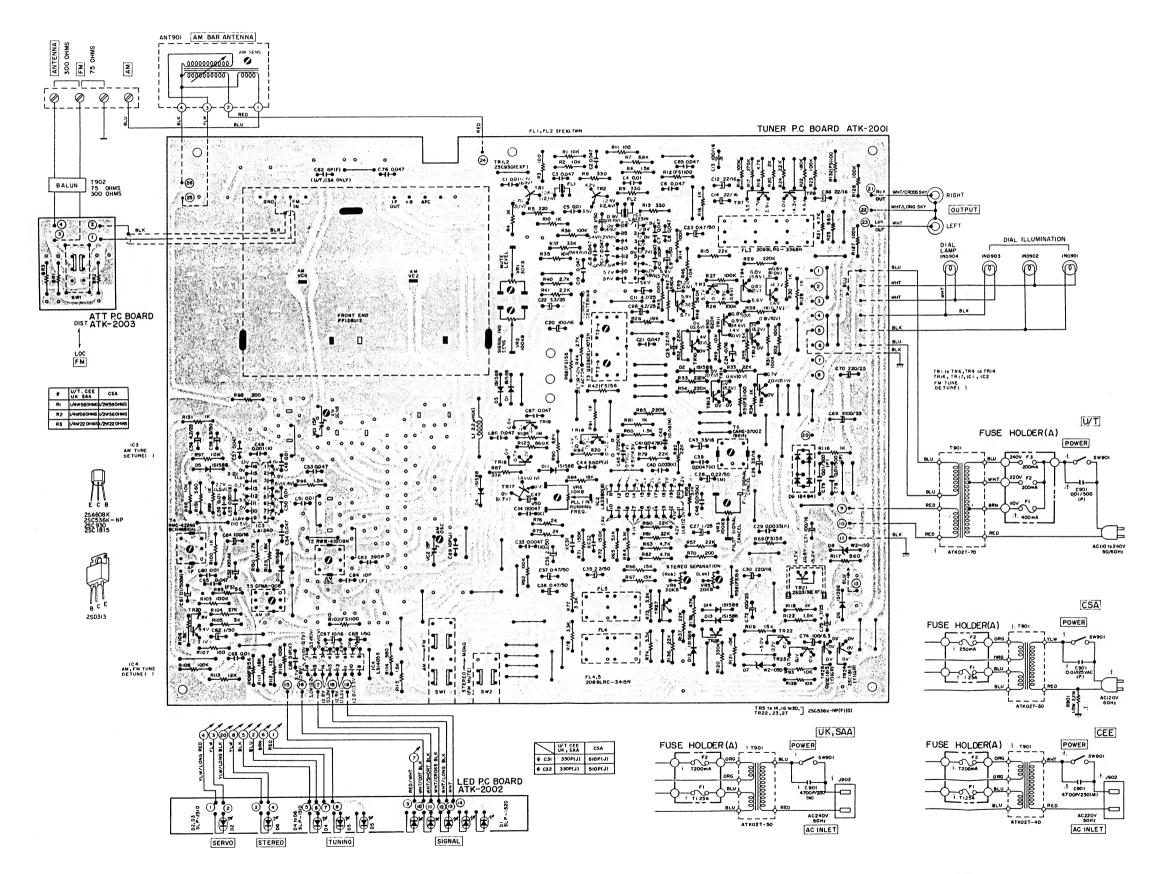
1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

P.C Board Title	Number of P.C Board
Tuner P.C Board	ATK-2001A
LED P.C Board	ATK-2002
ATT P.C Board	ATK-2003

Chart-3

2. COMPOSITION OF VARIOUS P.C BOARDS

Tuner P.C Board ATK-2001A, LED P.C Board ATK-2002 and ATT P.C Board ATK-2003



WARNING: AUDICATES SEFTY CRITICAL COMPONENTS FOR CONTINUED SEFTY,
PERCAL SEFTY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENCED PARTS

AVERTISSEMENT: ALL NIPOLI LES COMPOSANTS CRITICUES DE SUBETÉ, POUR
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SECTION 2

MODEL AM-U02 SERVICE MANUAL

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	2. COMPOSITION OF VARIOUS P.C BOARDS	24
For	basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNIC	ΑI

MANUAL.

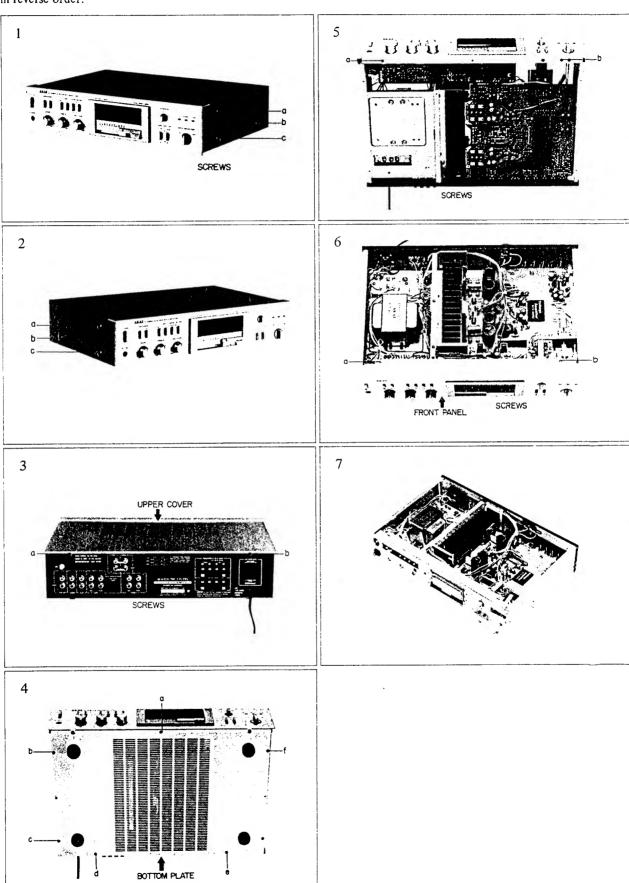
I. TECHNICAL DATA

POWER AMPLIFIER SECTION	
RATED OUTPUT POWER	
2-CHANNELS DRIVEN	26 watts per channel, minimum RMS, at 8 ohms from 20 to 20,000 Hz
z omnanezo braven	with no more than 0.01% total harmonic distortion.
POWER BANDWIDTH (IHF)	6 Hz to 60 kHz/8 ohms (Total harmonic distortion: 0.1%)
SIGNAL TO NOISE RATIO (IHF)	o 112 to oo kii2/o oiiiis (Total halliolile distortioli. 0.1/0)
PHONO	Better than 75 dB
AUX	Better than 95 dB
RESIDUAL NOISE	Less than 0.5 mV at 8 ohms
CHANNEL SEPARATION (IHF)	
PHONO	Better than 55 dB at 1,000 Hz
DAMPING FACTOR	More than 45 (1 kHz, 8 ohms)
OUTPUT SPEAKERS	A, B (4 to 16 ohms)/A+B (8 to 16 ohms)
HEADPHONE	4 to 16 ohms
PRE AMPLIFIER SECTION	
INPUT SENSITIVITY/IMPEDANCE	The state of the s
PHONO	3 mV/47 kohms
AUX	150 mV/100 kohms
TUNER	150 mV/100 kohms
TAPE MONITOR	PIN: 150 mV/100 kohms
	DIN: 150 mV/100 kohms
OUTPUT LEVEL/IMPEDANCE	
TAPE REC	PIN: 150 mV/1 kohm
	DIN: 30 mV/30 kohms
PRE OUTPUT	1 V/1 kohm
FREQUENCY RESPONSE	
PHONO (RIAA EQUALIZATION)	30 Hz to 15 kHz +0.5 dB, -0.5 dB
TUNER, AUX, TAPE MONITOR	10 Hz to 40 kHz +0 dB, -2 dB
TONE CONTROL BASS	±8.5 dB at 100 Hz
TREBLE	±8.5 dB at 10 kHz
LOUDNESS CONTROL	1: +3 dB at 100 Hz, +2.5 dB at 10 kHz
	2: +6.5 dB at 100 Hz, +5.0 dB at 10 kHz
	3: +10 dB at 100 Hz, +9.5 dB at 10 kHz
	(Volume control set at – 30 dB position)
FILTER HIGH	-3 dB at 10 kHz
SUBSONIC	-3 dB at 18 Hz
MISCELLANEOUS	
SEMICONDUCTORS	Transistors: 16, Diodes: 19, ICs: 9
POWER REQUIREMENTS	120 V, 60 Hz for U.S.A. and Canada
	220 V, 50 Hz for Europe except UK and Australia
	240 V, 50 Hz for UK and Australia
	110/220/240 V, 50/60 Hz Switchable for other countries
POWER CONSUMPTION	140 W
DIMENSIONS	440 (W) x 105 (H) x 300 (D) mm (17.3" x 4.1" x 11.8")
WEIGHT	7.8 kg (17.2 lbs)

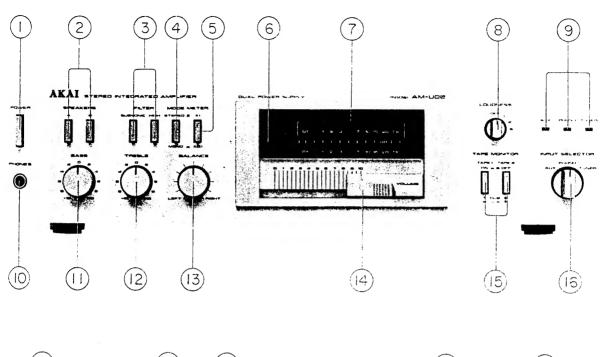
^{*} For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



III. CONTROLS



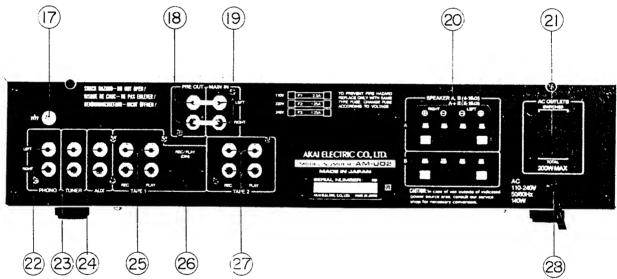


Fig. 1 Controls

- 1. POWER SWITCH
- 2. SPEAKER SYSTEM SELECTOR SWITCHES
- 3. FILTER SWITCHES
- 4. MODE SELECTOR
- 5. METER SWITCH
- 6. CLIPPING INDICATOR
- 7. FLD BAR METER
- 8. LOUDNESS SWITCH
- 9. INPUT SELECTOR INDICATOR
- 10. HEADPHONE JACK
- 11. BASS CONTROL
- 12. TREBLE CONTROL
- 13. STEREO BALANCE CONTROL
- 14. VOLUME CONTROL
- 15. TAPE MONITOR SWITCHES

- 16. INPUT SELECTOR
- 17. GROUND TERMINAL
- 18. PRE-OUT TERMINALS
- 19. MAIN-IN TERMINALS
- 20. A AND B SYSTEM SPEAKER TERMINALS
- 21. EXTRA AC OUTLETS (Some models are not equipped with this facility.)
- 22. PHONO TERMINALS
- 23. TUNER TERMINALS
- 24. AUX TERMINALS
- 25. TAPE 1 SYSTEM REC/PLAY TERMINALS
- 26. TAPE 1 SYSTEM DIN JACK
- 27. TAPE 2 SYSTEM REC/PLAY TERMINALS
- AC CORD (Some models are equipped with an AC Inlet instead of an AC cord. Connect with an appropriate power cord.)

IV. PRINCIPAL PARTS LOCATION

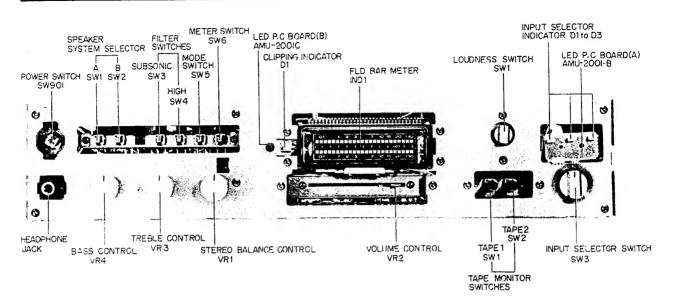


Fig. 2 Front View

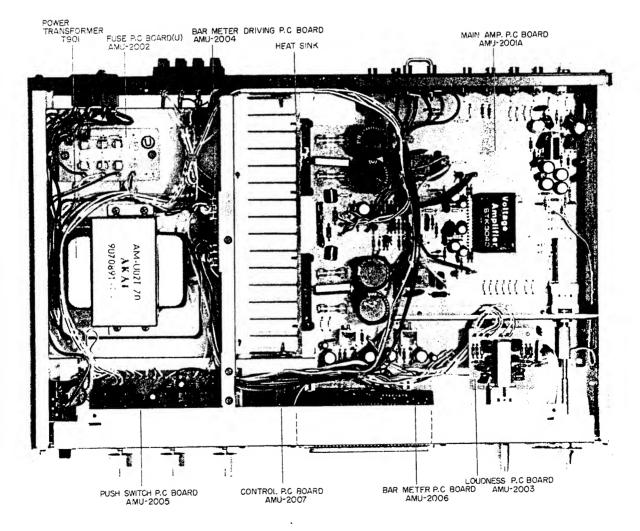


Fig. 3 Top View

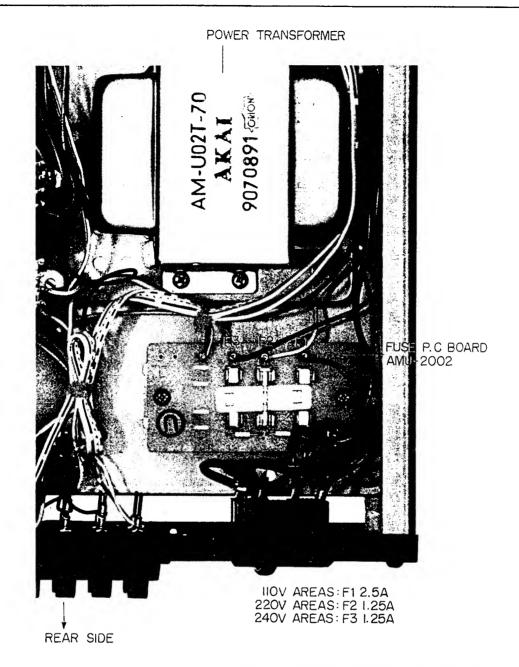


Fig. 4 Voltage Conversion (U/T Model)

Models for Canada, USA, Europe, UK, JPN and Australia are not equipped with this facility.

Each machine is preset at the factory according to destination but some machines can be set to 110 V, $220\ V$ or $240\ V$ as required.

If voltage change is necessary, this can be accomplished as follows.

- 1) Disconnect AC Power Cord.
- 2) Loosen holding screws and remove upper cover.
- Remove existing line voltage fuse and insert required line voltage fuse in proper fuse holder, explicitly following instructions printed on rear panel.

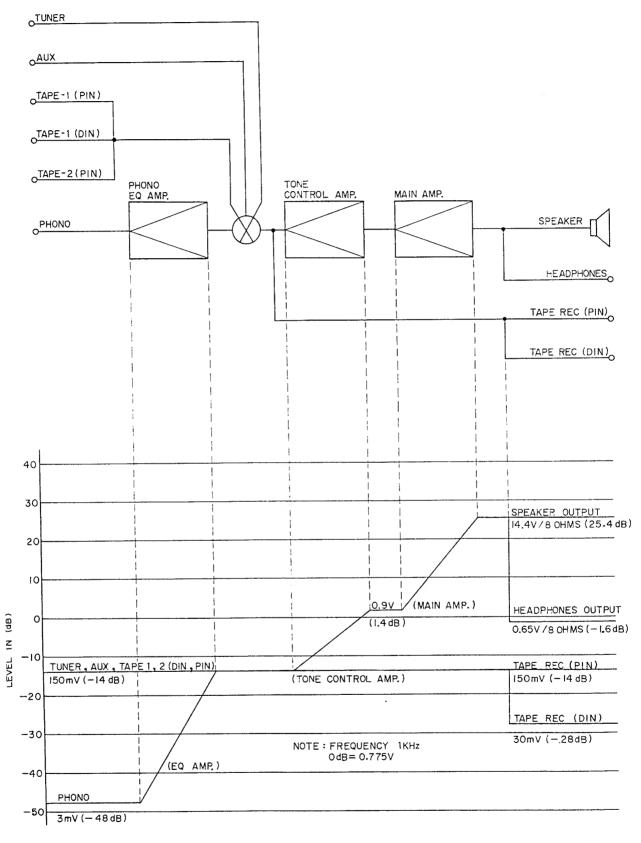


Fig. 5 Level Diagram

VII. AMPLIFIER ADJUSTMENT

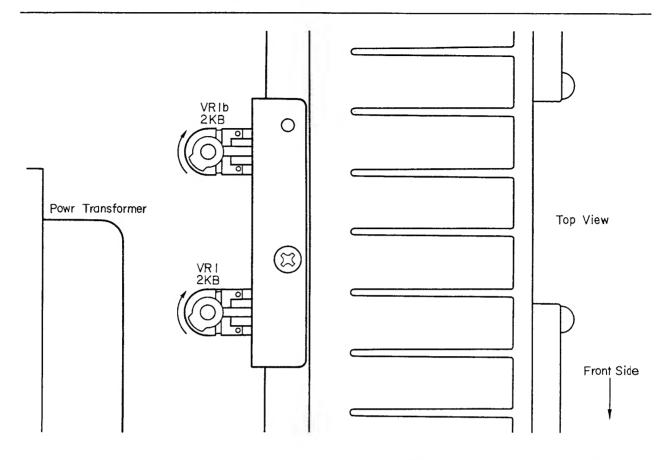


Fig. 6 Bar Meter Driving P.C Board AMU-2004

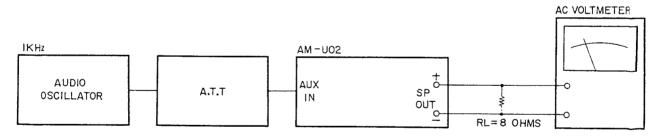


Fig. 7 Instrument Connections

METER SENSITIVITY ADJUSTMENT (Refer to Figs. 6, 7)

The Meter range switch should be set to "x1".

Feeding in 1 kHz from audio oscillator, adjustment the VOLUME knob so as to make the voltage at both ends of the RL (8 ohms) 8.9 V.

Also, adjust VR 1 (2 kB, L-ch) and VR 2 (2 kB, R-ch) to the point where the 10 watts indicator will start lighting up.

VIII. CLASSIFICATION OF VARIOUS P.C BOARDS

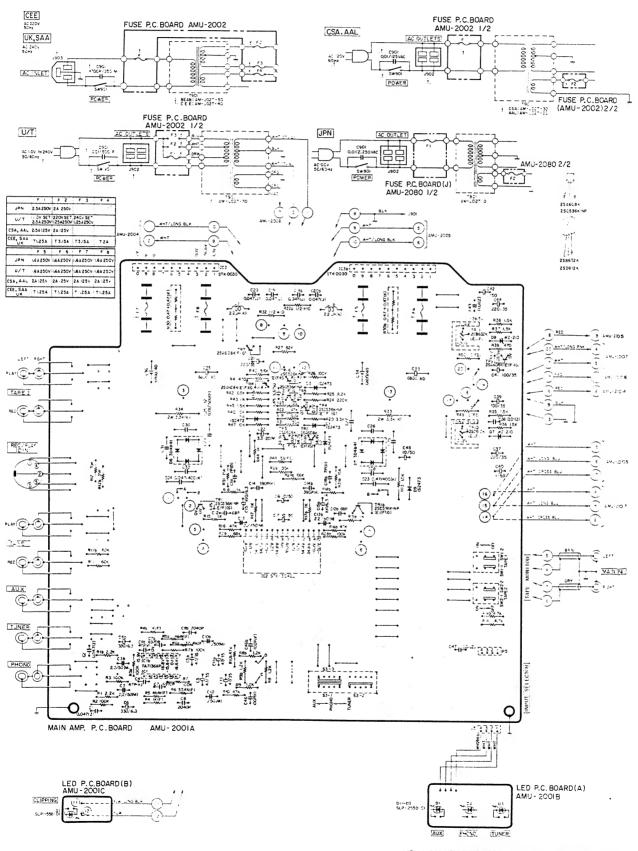
1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

P.C Board Title	P.C Board Number
Main Amp. P.C Board	AMU-2001A
LED P.C Board (A)	AMU-2001B
LED P.C Board (B)	AMU-2001C
Fuse P.C Board	AMU-2002
Loudness P.C Board	AMU-2003
Bar Meter Driving P.C Board	AMU-2004
Push Switch P.C Board	AMU-2005
Bar Meter P.C Board	AMU-2006
Control P.C Board	AMU-2007

Chart-1

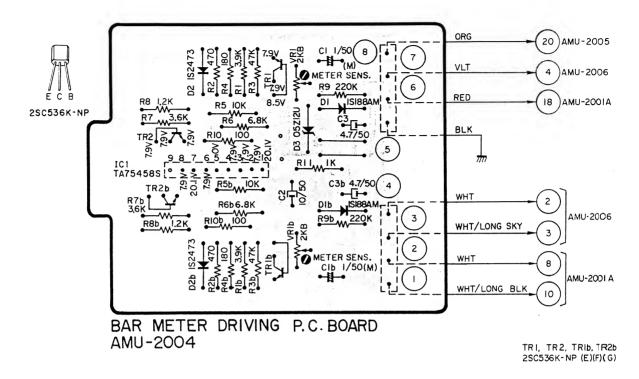
2. COMPOSITION OF VARIOUS P.C BOARDS

1) Main Amp. P.C Board AMU-2001A (3ED) and LED P.C Board (A)/(B) AMU-2001B/C

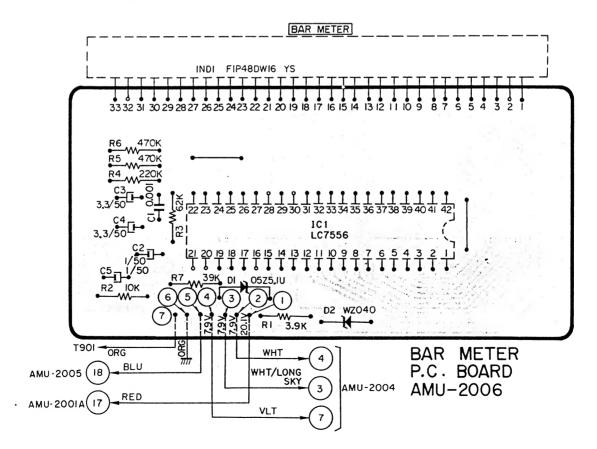


WARNING AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY OR TICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARK. TO SOME SOME SAFETY OF TIQUES OF SOME POLY AVERTISSEMENT ALL NO GOLDES COMPOSANTS OF TIQUES OF SOMETE POLY AVERTISSEMENT ALL NO GOLDES COMPOSANTS OF TIQUES OF SOMETHING POLY COMPOSANTS ON THE FOWEITHORNEWEST STOCKTOME POLY A SECRI-CUE PARK SER PRESONMANDES AND CERTIFICATION.

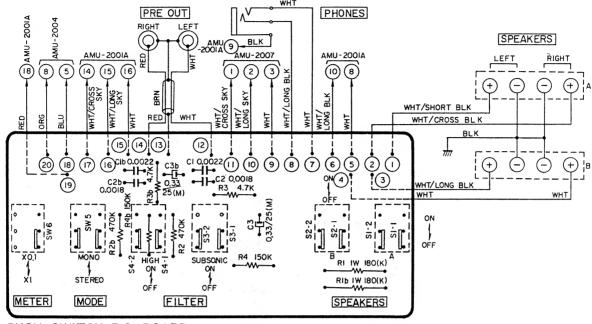
2) Bar Meter Driving P.C Board AMU-2004



3) Bar Meter P.C Board AMU-2006

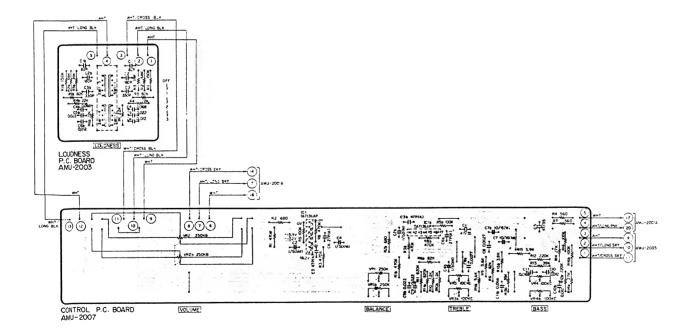


4) Push Switch P.C Board AMU-2005



PUSH SWITCH P.C BOARD AMU-2005

5) Loudness P.C Board AMU-2003 and Control P.C Board AMU-2007



SECTION 3

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PARTS LIST

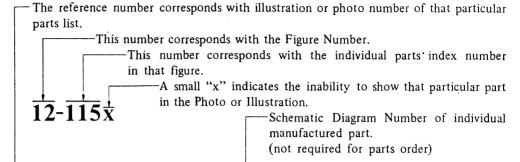
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	5. BAR METER DRIVE P.C BOARD (AMU-2004) BLOCK	41
	6. LOUDNESS P.C BOARD (AMU-2003) BLOCK	41
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	8. FINAL ASSEMBLY BLOCK	42
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Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

HOW TO USE THIS PARTS LIST

- 1. This parts list is compiled by various individual blocks based on assembly process.
- 2. When ordering parts, please describe parts number, serial number, and model number in detail.
- 3. How to read list.



Ref. No. Parts No.

Description

Schematic No

FLYWHEEL BLOCK #13

12-115x	800425	Flywheel Block Assy. Comp.	RDG = 13
12-116	244506	Flywheel Only	RD-233
12-117x	244754	Felt, Flywheel	RD-275
12-118	251324	Main Metal Case	RD-236
12-119	253080	Main Metal	RD-237

- 4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
- 5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
- 6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
- 7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.

It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).

8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

CAUTION:

- 1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
- 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
- 3. Because parts number and parts unit supply in the Preliminary Service Manual (Basic Parts List) may be partially changed, please use this parts list for all future reference.

WARNING:

 \triangle INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMEMNDED PARTS.

AVERTISSEMENT: \(\triangle \) IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

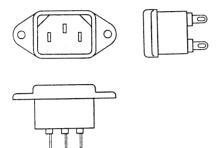
AC INLET SYSTEM

This model is equipped with an AC INLET SYSTEM. Please refer to the AC INLET SYSTEM CHART below for the specific type. By the AC INLET SYSTEM, AC (mains) cord can be connected to and disconnected from the model because the model is provided with socket exclusively for AC (mains) cord on its main body.

Please note, however, that certain models are not equipped with this system and has a built-in AC (mains) cord as before

AC INLET SYSTEM CHART



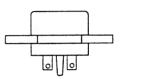


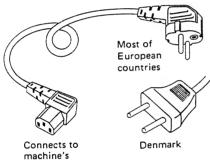
Picture 1
AC INLET to be installed on machines



This mark indicating double insulation will be attached to machine's rear panel





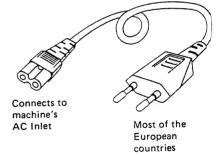


machine's
AC Inlet

Australia differs according

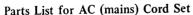
to wall socket

Picture 2 AC (mains) cord





Australia differs according to wall socket



Standard		Description	Type of AC Inlet	Parts No.
	CEE	Cord Set CEE (3 cores)	3P	EW302993
	BEAB	Cord Set BEAB (3 cores)	3P	EW30294
Class I	SAA	Cord Set SAA (3 cores)	3P	EW30296
Class II	U/T	Cord Set U/T (3 cores)	3P	EW302/46
	CEE	Cord Set CEE (2 cores)	2P	EW638 44
	BEAB	Cord Set BEAB (2 cores)	2P	EW30295
	SAA	Cord Set SAA (2 cores)	2P	EW3029
	U/T	Cord Set U/T (2 cores)	2P	EW30299

I. MODEL AT-KO2

1. RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

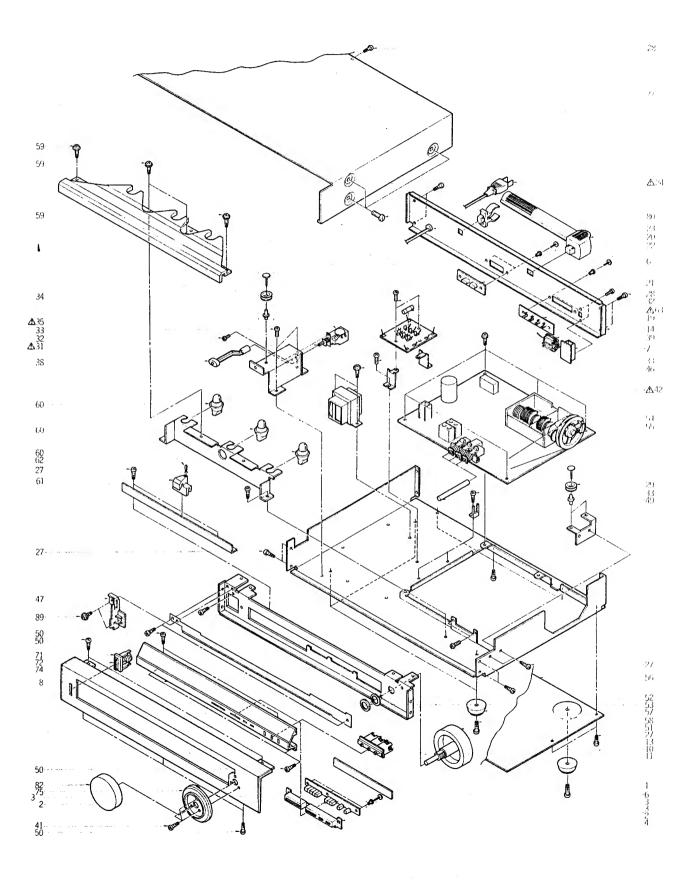
Parts No.	Description	Notes
BA320245	Tuner PCB Comp. AT-K02 (CEE)	(CEE, UK, SAA)
BA320244	Tuner PCB Comp. AT-K02 (CSA)	(CSA, AAL)
BA320243	Tuner PCB Comp. AT-K02 (U/T)	
BT322217	⚠ Power Trans. AT-K02T-30	(CSA, AAL)
BT322206	⚠ Power Trans. AT-K02T-40	(CEE)
BT322218	⚠ Power Trans. AT-K02T-50	(UK, SAA)
BT322177	⚠ Power Trans. AT-K02T-70	(U/T)
BT307204	AM-IF Trans. CFMA-008	
BT293398	AM-IF Trans. RMC-42246BCH 468 kHz	
EC204671	⚠ Ceramic/C. DD31-6E 0.01µF (P) 500WV	(U/T)
EC314688	Δ Ceramic/C. DE7150 FZ 0.01μF (P) 125WV	(CSA, AAL)
EC301320	△ MP/C. 4700PF (M) 250WV	(CEE, UK, SAA)
EC616342	Trimmer/C. CTY122D33 15PF	
ED322247	LED SLP-151D	
ED322184	LED SLP-152D	
ED322215	LED SLP-251D	
ED557447	Silicon Diode 1S1588	
ED322238	Silicon Stack 1B4B41	
ED315367	Zener Diode WZ-050	
ED237960	Zener Diode WZ-150	
EE322245	Bar Ant	
EE322242	Front End FF126U12	
EF309392	△ Fuse 1.25A 125V	(CSA, AAL)
EF315334	⚠ Fuse 250mA 125V	(CSA, AAL)
EF309389	▲ Fuse 400mA 250V	(U/T)
EF300588	↑ Fuse (EAWK)	(CEE, UK, SAA)
EF602550	△ Fuse (SEMKO T Type) 1.25AT 250V	(CEE, UK, SAA)
EI293185	I.C LA-1240	
EI315491	I.C LB1405S	
EI322248	IC LA1231N	
EI322185	IC LA3380 (B)	
EJ301513	Å Inlet 2P	(CEE, UK, SAA)
EL322236	Lamp (Cord Type) 8V 300mA (400mmx2)	
EL322234	Lamp (Cord Type) 8V 50mA (350mmx2)	
EO322239	DET Coil Q228CEL-1072N	
EO322241	MPX Coil CANS-3700Z	
EO307186	OSC Coil RWR-43208N ·	
EO539820	Peaking Coil 2.2μH (K)	
ER307201	Ceramic Filter SFE10.7mm	
ER322181	Low Pass Filter 208BLRC-3415N	
ER322237	Low Pass Filter 209BLRG-3368N	

Parts No.	Description	Notes
ES310839	↑ Push SW. SDG1P-E 5A/80A 250V	(U/T, CEE, UK, SAA)
ES665875	⚠ Push SW. SDG1P-J TV-3 UL/CSA	(CSA, AAL)
ES322243	Push SW. JK2108	
ES324238	Slide SW. SSB02204	
ET322244	Transistor 2SA608K-NP (F) (G)	
ET307234	Transistor 2SC1815 (Y) (GR)	
ET316643	Transistor 2SC536K-NP (F) (G)	
ET618873	Transistor 2SC930 (E) (F)	
EV604438	Semi-Fixed/Vol. V10K8-4-2 B10K	
EV593368	Semi-Fixed/Vol. V10K8-4-2 B30K	
EV550023	Semi-Fixed/Vol. V10K8-4-2 100K (B)	
EV551452	Semi-Fixed/Vol. (Solid Type) SR19R 22K B	
EW306428	⚠ AC Cord (U/T)	
EW305691	⚠ AC Cord CUL	(CSA, AAL)
EW302995	⚠ AC Cord SET BEAB 2 Cores	(UK)
EW315767	⚠ AC Cord SET CEE 2 Cores	(CEE)
EW322401	△ AC Cord SET SAA 2 Cores	(SAA)

2. TUNER P.C BOARD (ATK-2001A) BLOCK

Symbol No.	Parts No.	Description	Schematic No.	Symbol No.	Parts No.	Description	Schematic No.
2-1	BA320243	Tuner PCB Comp.	ATV COOLA D	2-R109	ER324337	Carbon/R. F 1/4WS	
2-2	BA320244	AT-K02 (U/T) Tuner PCB Comp. AT-K02 (CSA)	ATK-2001A, B	2-R132	ER307196	56 ohms (J) Carbon/R. F 1/4W	35-11-30
2-3	BA320245	(CSA, AAL) Tuner PCB Comp.	ATK-2001A, B	2-C31	EC513990	100 ohms (J) Styrol/C. (Vert.) 330PF (J) 50WV	35-11-25
		AT-K02 (CEE) (CEE, UK, SAA)	ATK-2001A, B	2-C31	EC672287	(U/T, CEE, UK, SAA) Styrol/C. (Vert.)	24-11-3
2-IC1	E1322248	IC LA1231N	45-8-443			510PF (J) 50WV	
2-IC2	EI322185	IC LA3380 (B)	45-8-413			(CSA, AAL)	24-11-3
2-IC3	EI293185	IC LA-1240	45-8-220	2-C32	EC513990	Styrol/C. (Vert.)	
2-IC4	El315491	IC LB1405S	45-8-365			330PF (J) 50WV	
2-TR1,2	ET618873	Transistor 2SC930 (E)(F)	45-1-185			(U/T, CEE, UK, SAA)	24-11-3
2-TR3,4	ET322244	Transistor 2SA608K-NP	15 1 200	2-C42	EC313534	NP/C.	
2-TR5to14	ET316643	(F) (G)	45-1-375	2-C32	EC672287	Styrol/C. (Vert.)	
2-1 K3t014	E1310043	Transistor 2SC536K-NP	15 1 200			510PF (J) 50WV	
2-TR16to20	ET316643	(F) (G) Transistor 2SC536K-NP	45-1-362	2-C44	EC435690	(CSA, AAL) Styrol/C. (Vert.)	24-17-31
2-TR21	ET452531	(F) (G) Transistor 2SD313(E)(F)	45-1-362	2.045	F. C. 2. 4. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	560PF (J) 50WV	24-11-3
2-TR22,23	ET316643	Transistor 2SC536K-NP	45-1-105	2-C45	EC315335	NP/C. 4.7μF (M) 25WV	24-11-3
,_,		(F) (G)	45-1-362	2-C83	EC514001	Styrol/C. (Vert.)	
2-TR24,25	ET307234	Transistor 2SC1815	15 1 302	2-4	EE322242	390PF (J) 50WV Front End FF126U12	24-17-31
		(Y) (GR)	45-1-299	2-5	ZS325495	Tapping Screw, #2 BR	24-11-3
2-TR27	ET316643	Transistor 2SC536K-NP	10 1 255	2-3	20323493	3x6	57-2-53
		(F) (G)	45-1-362			3,0	31 2 33
2-TR28	ET322244	Transistor 2SA608K-NP					
_		(F) (G)	45-1-375				
2-D1to6	ED557447	Silicon Diode 1S1588	45-3-22				
2-D7	ED315367	Zener Diode WZ-050	45-6-67				
2-D8	ED237960	Zener Diode WZ-150	45-6-67				
2-D9	ED322238	Silicon Stack 1B4B41	45-2-97				
2-D10to14 2-DVC1,2	ED557447 EC616342	Silicon Diode 1S1588 Trimmer/C. CTY122D33	45-3-22				
2-0 (01,2	LC010342	15PF	91 9 29				
2-SW1,2,3	ES322243	Push SW. JK-2108	24-2-32 25-5-359				
2-VR1	EV593368	Semi-Fixed/Vol.	23 3 333				
		V10K8-4-2 B30K	36-10-250				
2-VR2,3	EV550023	Semi-Fixed/Vol.					
2-VR4,5	EV551452	V10K8-4-2 100K (B) Semi-Fixed/Vol. (Solid	36-10-250				
2-VR6	EV604438	Type) SR19R 22kB Semi-Fixed/Vol.	36-19-10				
		V10K8-4-2 B10K	36-10-250				
2-L1	EO539820	Peaking Coil 2.2µH (K)	23-1-187				
2-T2	EO307186	OSC Coil RWR-43208N	23-4-47				
2-T3	EO322239	DET Coil					
- 71	D	Q228CEL-1072N	23-1-383				
2-T4	BT293398	AM-IF Trans.					
2-T5	BT307204	RMC-42246BCH 468kHz	23-1-276				
2-13 2-T6	EO322241	AM-IF Trans. CFMA-008 MPX Coil CANS-3700Z	53-1-131				
2-FL1,2	ER307201	Ceramic Filter	23-1-386				
, -		SFE10.7mm	53-1-132				
2-FL3	ER322237	Low Pass Filter					
		209BLRG-3368N	23-1-384				
2-FL4,5	ER322181	Low Pass Filter					
2 P12	ER322591	208BLRC-3415N	23-1-385				
2-R12	EK322391	Carbon/R. F 1/4 WS 100 ohms (J)	25-11-20				
2-R42	ER324337	Carbon/R. F 1/4WS	35-11-30				
2-R51	ER322591	56 ohms (J) Carbon/R. F 1/4WS	35-11-30				
2-R56	ER324337	100 ohms (J) Carbon/R. F 1/4WS	35-11-30				
2-R68	ER324337	56 ohms (J) Carbon/R. F 1/4WS	35-11-30				
2-R69	ER324337	56 ohms (J) Carbon/R. F 1/4WS	35-11-30				
2-R85	ER324337	56 ohms (J) Carbon/R. F 1/4WS	35-11-30				
2-R102	ER322591	56 ohms (J) Carbon/R. F 1/4WS	35-11-30				
		100 ohms (J)	35-11-30				

3. FINAL ASSEMBLY BLOCK



TO KATAK	ASSEMBLY	DIACI
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	TOOLINDE	DECORE

Ref. No.	Parts No.	Description	Schematic No.				
	LED P.C BC	OARD BLOCK		Ref.	Parts No.	Description	Schematic No.
3-1	ED322184	LED SLP-152D	45-15-40	No.		-	NO.
3-2	ED322215	LED SLP-251D	45-15-39	3-51	TA322249	Tuning Wheel Assy	9-3-53
3-3	ED322247	LED SLP-151D	45-15-41	3-52	ZW436026	Washer (SPC) D9.2×15×0.5t	
3-4	SE322190	LED Escutcheon	ATK-2021			E Jack Nut	7-1-56
3-5x	SE322191	LED Escutcheon (BL)	ATK-2021	3-53	ZW554624	Dial Wheel Assy	9-3-52
3-5x 3-6	ZW698308	, ,		3-54	TA322250		8-2-1
3-0	211090300		2-7-54	3-55	TA307160	Dial String TK-1064 D0.5	
		(Black)	2-1-34	3-56	SP322202	Bottom Plate	ATK-2030
	ATTENHAT	TOD D C DO A DD DI OCV		3-57	SA311742	Circular Foot	PC-2032
3-7	ES324238	FOR P.C BOARD BLOCK Slide SW. SSB02204	25-3-185	3-58 3-59	ZS565942 ZS225134	Tapping Screw, #2 pan 4x8 Tapping Screw #2, pan 3x10 W=8	
3-8	SCALE PAN SP322182	NEL BLOCK Scale Panel (A)	ATK-2016,2017	3-60	EL322236	Lamp (Cord Type) 8V 300mA (400mm×2)	28-2-83
3-9x	SP322183	Scale Panel (A-BL)	ATK-2016, 2017	3-61	TA320234	Pointer Part AT-K02	ATK-2038
3-10	SE322188	Escutcheon (B)	ATK-2019	3-62	EL322234	Lamp (Cord Type) 8V 50mA	
3-11	SB322186	Button (B)	ATK-2018			(350mm×2)	28-2-82
3-12x	SB322187	Button (B-BL)	ATK-2018	3-63	EF309389	△ Fuse 400mA 250V (U/T)	39-1-64
3-13	ZG322189	Spring (B)	ATK-2020	3-64x	EF309392	⚠ Fuse 1.25A 125V	
	REAR PAN					(CSA, AAL)	39-1-65
3-14	SP322168	Rear Panel (U/T-1)	ATK-2007	3-65x	EF315334	↑ Fuse 250mA 125V (CSA, AAL)	39-1-65
	SP322170	Rear Panel (CSA-1)	ATK-2007		EE/con		33 1 43
3-15x		* *	ATK-2007	3-66x	EF602550	A Fuse (SEMKO T Type)	10 - 1 - 53
3-16x	SP322169	Rear Panel (AAL-1)				1.25AT 250V (CEE,UK,SAA)	39-1-53
3-17x	SP322171	Rear Panel (CEE-1)	ATK-2008	3-67x	EF300588	⚠ Fuse (EAWK)	
3-18x	SP322172	Rear Panel (UK, SAA-1)	ATK-2008			(CEE, UK, SAA)	39 - 1 - 60
3-19	EJ603685	Antenna Terminal Plate 4P	32-1-52				
3-20	EE322245	Bar Ant	55-1-62		FRONT PA	NEL BLOCK	
3-21	EJ322246	2P Pin Jack	32-1-108	3-68	BD320250	Front Panel BLK AT-K02	AT K-2052
3-22	ZW281463	Nylon Rivet (NRB) 3x6.5		3-69x	BD320251	Front Panel BLK AT-K02-BL	AT K-2052
		(Black)	2-7-54	3-70x	BD320268	Front Panel BLK AT-K02-S	AT K-2052
3-23	EZ631945	Strain Relief SR-4N-4		3-71	SE322578	Escutcheon (A)	AT K-2013
		(U/T, CSA, AAL)	2-7-49	3-72	SB322576	Button (A)	AT K-2012
3-24	EW306428	⚠ AC Cord (U/T)	26-3-64	3-73x	SB322577	Button (A-BL)	AT K-2012
3-25x	EW305691	⚠ AC Cord CUL (CSA, AAL)	26-3-65	3-74	ZG322579	Spring (A)	AT K-2014
3-26x	EJ301513	⚠ Inlet 2P (CEE, UK, SAA)	31-1-200	3-75	TA322204	Tuning Knob Cover (A)	AT K-2032
	4 00E14D13/	The OCK		3-76x	TA322205	Tuning Knob Cover (A-BL)	AT K-2032
	ASSEMBLY					DIEDVIE DI OCH	
3-27	ZS325495	Tapping Screw, #2 BR 3x6				EMBLY BLOCK	
3-28	ZS308846	Tapping Screw, #2 BR 3x8		3-77	BC322209	Upper Cover (A)	AT K-2034
		(Oval Neck)	7-1-69	3-78x	BC322212	Upper Cover (B) (AAL)	AT K-2034
3-29	MR308836	Pulley	13-2-40	3-79x	BC322210	Upper Cover (A-BL)	AT K-2034
3-30x	ES665875	⚠ Push SW. SDG1P-J TV-3		3-80	ZS322570	S-Tight Screw, bind 4x8	
		UL/CSA (CSA, AAL)	25-5-199	3-81x	ZS322580	S-Tight Screw, bind 4x8	
3-31	ES310839	⚠ Push SW. SDG1P-E 5A/80A				(AAL, BL)	
		250V (U/T, CEE, UK, SAA)	25-5-310	3-82	SK322207	Tuning Knob (A)	AT K-2033
3-32	ZS379350	Screw, pan 3x6		3-83x	SK322208	Tuning Knob (A-BL)	AT K-2033
3-33	ZS306021	S-Tight Screw, pan 3x6		3-84x	SK324433	Tuning Knob (B) (S)	AT K-2042
3-34	MZ307170	Pulley	13-2-39	3-85x	ZW305013	Pop Rivet D3.2 (AAL)	1-6-9
3-35	EC204671	△ Ceramic/C. DD31-6E		3-86x	EW315767	AC Cord Set CEE 2 Cores	
3-36x	EC314688	0.01µF (P) 500WV (U/T) ⚠ Ceramic/C. DE7150 FZ	24-5-66	3-87x	EW302995	(CEE) AC Cord Set BEAB 2 Cores	16 - 3-72
3-37x	EC301320	0.01μF (P) 125W (CSA, AAL) Δ MP/C. 4700PF (M) 250WV	24-5-87			(UK) AC Cord Set SAA 2 Cores	26 - 3-57
		(CEE, UK, SAA)	24-9-122 CF-6005	3-88x	EW322401	(SAA)	16-3-77
3-38	TC309268	Push Rod Balum Trans. 75 ohm-300 ohm	23-1-129	3-89	ZS498273	Tapping Screw #2, BR 3×8 W=8	
3-39 3-40	BT444137 ZS297641	Tapping Screw, #2, bind 3×8 W=10	23 1 123			w-8	
3-41	ZS462194	Tapping Screw, #2 pan 3x8 (W=8)					
3-42	BT322177	△ Power Trans. AT-K02T-70 (U/T)	38-4-777				
3-43x	BT322217	⚠ Power Trans. AT-K02T-30 (CSA, AAL)	38-4-778				
		⚠ Power Trans. AT-K02T-40	38-4-779				
3-44x	BT322206	(CFF)					
3-44x 3-45x	BT322206 BT322218	(CEE) A Power Trans. AT-K02T-50 (UK. SAA)	38-4-780				
			38-4-780				
3-45x 3-46	BT322218 ZS315511	↑ Power Trans. AT-K02T-50 (UK, SAA) S-Tight Screw, pan 3×6 Cut Point	38-4-780 7-1-72				
3-45x 3-46 3-47	BT322218 ZS315511 MS322192	↑ Power Trans. AT-K02T-50 (UK, SAA) S-Tight Screw, pan 3×6 Cut Point Scale Guide	38-4-780 7-1-72 ATK-2022				
3-45x	BT322218 ZS315511	↑ Power Trans. AT-K02T-50 (UK, SAA) S-Tight Screw, pan 3×6 Cut Point	38-4-780 7-1-72				

II. MODEL AM-UO2

1. RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

Parts No.	Description	Notes
BA320192	Main Amp PCB Comp. AM-U02	
BA320136	Main Amp PCB Comp. AM-U02 (CEE)	
BA320135	Main Amp PCB Comp. AM-U02 (CSA)	
BA319362	Main Amp PCB Comp. AM-U02 (JPN)	
BT323582	⚠ Power Trans. AM-U02T-10	(JPN)
BT322572	⚠ Power Trans. AM-U02T-20	(AAL)
BT322573	⚠ Power Trans. AM-U02T-30	(CSA)
BT322574	⚠ Power Trans. AM-U02T-40	(CEE)
BT322575	⚠ Power Trans. AM-U02T-50	(UK, SAA)
BT322571	⚠ Power Trans. AM-U02T-70	(U/T)
EC321302	Δ Ceramic/C. E 0.01μF (Z) 250VAC	(U/T, JPN)
EC204671	Δ Ceramic/C. DD31-6E 0.01μF (P) 500WV	(U/T)
EC314688	Δ Ceramic/C. DE7150 FZ 0.01μF (P) 125WV	(CSA, AAL)
EC301320	△ MP/C. 4700PF (M) 250WV	(CEE, SAA, UK)
EC320307	Elect./C. 6800µF 40WV	
ED562386	Germanium Diode 1S188AM	
ED322772	LED SLP-155D-01	
ED322773	LED SLP-255D-01	
ED214457	Silicon Diode 1S2472	
ED316143	Silicon Diode 1S2473-HS	
ED322589	Silicon Stack 3D4B41	
ED322810	Zener Diode WZ-040	
ED557111	Zener Diode WZ-210	
ED323530	Zener Diode 05Z-12U	
ED322774	Zener Diode 05Z5.1U	
EF306949	⚠ Fuse 1.25A 250V	(U/T)
EF311839	⚠ Fuse 1.6A 250V	(U/T, JPN)
EF306956	↑ Fuse 2.5A 125V	(CSA, AAL)
EF306951	☆ Fuse 2.5A 250V	(JPN)
EF306954	⚠ Fuse 2A 125V	(CSA, AAL)
EF306950	⚠ Fuse 2A 250V	(JPN)
EF300583	⚠ Fuse (EAK) 1.25AT	(CEE, UK, SAA)
EF300581	⚠ Fuse (EAK) 2AT	(CEE, UK, SAA)
EF300579	⚠ Fuse (EAK) 3.15AT	(CEE, UK, SAA)
El322791	IC LC7556	
EI322583	IC STK-0030	
EI322587	IC STK-3042	
El322588	IC TA7136AP	
E1322599	IC TA75458S	
EJ301199	Headphone Jack 3P64M	
EM322584	Bar Meter FIP48DW16YS	

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Parts No.	Description	Notes
EO650823	Phase Compensation Coil 2.2µH (K)	
ES315159	⚠ Push SW. SDG1P (JPN)	
ES310839	⚠ Push SW. SDG1P-E 5A/80A 250V	(CEE, SAA, UK)
ES665875	⚠ Push SW. SDG1P-J TV-3 UL/CSA	(CSA, AAL)
ES655806	⚠ Push SW. SDG1P-J TV3 CSA	(U/T)
ES324348	Push SW. J-K2091	
ES324344	Push SW. J-K2102	
ES322586	Rotary Slide SW. SRZW43N	
ES322776	Rotary Slide SW. SRZW44S	
ET322778	Transistor 2SA608K-NP (E) (F) (G)	
ET322244	Transistor 2SA608K-NP (F) (G)	
ET322598	Transistor 2SB632K (E) (F)	
ET322775	Transistor 2SC536K-NP (E) (F) (G)	
ET310148	Transistor 2SD612K (E) (F)	
EV322789	Semi-Fixed/Vol. V10K8-1-2 2kB	
EV324345	Single-Axial 2-Throw/Vol. V16L4G3N 100kCx2	
EV324346	Single-Axial 2-Throw/Vol. V16L4G3N 250kZx2	
EV322781	2-Throw Slide/Vol. MDV3B001-250kBx2	
EW306427 ·	⚠ AC Cord (JPN)	
EW306428	⚠ AC Cord (U/T)	
EW305691	⚠AC Cord CUL	(CSA, AAL)

2. MAIN AMP P.C BOARD (AMU-2001A) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
2-1	BA320192	Main Amp PCB Comp.	
2-2	BA319362	AM-U02 (U/T) Main Amp PCB Comp.	AMU-2001A
2-3	BA320135	AM-U02 (JPN) Main Amp PCB Comp.	AMU-2001A
2-4	BA320136	AM-U02 (CSA) Main Amp PCB Comp.	AMU-2001A
		(CSA, AAL) AM-U02 (CEE)	AMU-2001A
2-IC1	EI322588	IC TA7136AP (CEE, UK, SA	A) 45-8-414
2-IC2	E1322587	IC STK-3042-AL	45-8-416
2-TR1	ET322775	Transistor 2SC536K-NP	
2-TR2,3	ET322778	(E) (F) (G) Transistor 2SA608K-NP	45-1-362
2-TR4to6	ET322775	(E) (F) (G) Transistor 2SC536K-NP	45-1-375
2-TR7	ET322244	(E) (F) (G) Transistor 2SA608K-NP	45-1-362
2-TR8,9	ET322778	(F) (G) Transistor 2SA608K-NP	45-1-375
2-TR10	ET310148	(E) (F) (G) Transistor 2SD612K	45-1-375
		(E) (F)	45-1-308
2-TR11	ET322598	Transistor 2SB632K (E) (F)	45-1-374
2-D1to3	ED316143	Silicon Diode 1S2473-HS	45-3-53
2-D4	ED214457	Silicon Diode 1S2472	45-3-41
2-D5,6	ED322589	Silicon Stack 3D4B41	45-2-96
2-D7,8	ED557111	Zener Diode WZ-210	45-6-67
2-D9	ED214457	Silicon Diode 1S2472	45-3-41
2-L1	EO650823	Phase Compensation Coil	
		2.2µH (K)	23-1-239
2-J1	EJ698051	Din Jack	31-1-158
2-J2,3	EJ293365	Pin Jack 4P	31-1-197
2-J4	EJ293376	Pin Jack 6P	31-1-198
2-SW1,2	ES324344	Push SW. J-K2102	25-5-383
2-SW3	ES322586	Rotary Slide SW.	
		SRZW43N	25-6-189
2-R4	ER317686	Metal Oxide Film/R. 1/4WS 1 K (F)	35-17-20
2-R5	ER322293	Metal Film/R. 1/4W 464K (F)	35-17-20
2-R6	ER322294	Metal Film/R. 1/4W 37.4K (F)	35-17-20
2-R30	ER322590	Cement/R. (Metal Plate)	
		5W (0.47+0.47) ohms (K)	35-16-84
2-R33,34	ER311673	Metal Oxide Film/R. 2W 3.3K (K)	35-15-8
2-R48	ER324337	Carbon/R. F 1/4WS 56 ohms (J)	35-11-30
2-R49,50	ER322787	Carbon/R. F 1/4WS 10 ohms (J)	35-11-30
2-C3	EC324379	NP/C. 2.2μF (M) 50WV	24-17-36
2-C7	EC322788	Styrol/C. 6970PF(J) 50WV	24-11-18
2-C8	EC322800	Styrol/C. 2040PF(J) 50WV	24-11-18
2-C10	EC324376	NP/C. 1μF (M) 50WV	24-17-36
2-C13	EC324379	NP/C. 2.2μF (M) 50WV	24-17-36
2-C22	EC322290	Solid Aluminum/C.	
2-C23,24	EC326583	3.3µF (M) 25WV Metalized Mylar/C. (Vert.)	24-19-3
		0.047μF (K) 400WV	24-16-29
2-C33to36	EC320307	Elect./C. 6800µF 40WV	24-12-63
2-5	ZS447840	Tapping Screw, #2 BR 3x8	
2-6	ZS498273	Tapping Screw, #2, BR 3x8 W=8	
2-7	ZS422076	Screw, pan 3x5	

3. CONTROL P.C BOARD (AMU-2007) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
3-IC1	E1322588	IC TA7136AP	45-8-414
3-VR1	EV324346	Single-Axial 2-Throw/Vol.	111
		V16L4G3N 250kZx2	36-22-65
3-VR2	EV322781	2-Throw Slide/Vol.	
		MDV3B001-250kBx2	36-27-8
3-VR3,4	EV324345	Single-Axial 2-Throw/Vol.	
		V16L4G3N 100kCx2	36-22-64
3-C2	EC324376	NP/C. 1μF (M) 50WV	24-17-36
3-C4	EC324376	NP/C. 1μF (M) 50WV	24-17-36
3-C7	EC323260	$NP/C.~10\mu F~(M)$	2. 1. 00
		16WV	24-17-36
3-1	75422076	Screw non 3uf	2

4. BAR METER P.C BOARD (AMU-2006) BLOCK 6. LOUDNESS P.C BOARD (AMU-2003) BLOCK

Symbol No.	Parts No.	Description	Schematic No.
4-IC1	EI322791	IC LC7556	45-8-425
4-D1	ED322774	Zener Diode 05Z5.1U	45-6-76
4-D2	ED322810	Zener Diode WZ-040	45-6-67
4-IND1	EM322584	Bar Meter FIP48DW16YS	59-1-2
4-1	ZS422076	Screw, pan 3x5	

Symbol No.	Parts No.	Description	Schematic No.
6-SW1	ES322776	Rotary Slide SW.	
		SRZW44S	25-6-188
6-C2	EC321173	Styrol/C. 180PF (J) 50WV	24-11-14
6-C3	EC306988	Styrol/C. 330PF (J) 50WV	24-11-14

5. BAR METER DRIVE P.C BOARD (AMU-2004) **BLOCK**

Symbol No.	Parts No.	Description	Schematic No.
5-IC1	EI322599	IC TA75458S	45-8-415
5-TR1,2	ET322775	Transistor 2SC536K-NP	
,		(E) (F) (G)	45-1-362
5-D1	ED562386	Germanium Diode	
- "		1S188AM	45-3-24
5-D2	ED316143	Silicon Diode 1S2473-HS	45-3-53
5-D3	ED323530	Zener Diode 05Z-12U	45-6-76
5-VR1	EV322789	Semi-Fixed/Vol.	
		V10K8-1-2 2kB	36-10-255
5-C1	EC657044	NP/C. (Vert. Type)	
		1μF (M) 50WV	24-17-26
5-1	ZS325495	Tapping Screw, #2 BR 3x6	

7. PUSH SW. P.C BOARD (AMU-2005) BLOCK

Symbol No.	Parts No.	Description	Schematic No.	
7-SW1to6	ES324348	Push SW. J-K2091	25-5-384	
7-R1	ER511288	Metal Oxide Film/R. 1W		
		180 ohm (K)	35-15-10	
7-C3	EC324378	Solid Aluminum/C.		
		$0.33\mu F(M) 25WV$	24-19-3	

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1. MODEL AT-K02

Parts No.	Ref. No. & Symbol No.								
BA320243	2-1	ED322184	3-1	ER322591	2-R12	EW322401	3-88x	TA322205	3-76x
BA320244	2-2	ED322215	3-2	ER322591	2-R51	EZ631945	3-23	TA322249	3-702
BA320245	2-3	ED322238	2-D9	ER322591	2-R102	MR308836	3-29	TA322250	3-54
BC322209	3-77	ED322247	3-3	ER324337	2-R42	MS322192	3-47	TC309268	3-34
BC322210	3-79x	ED557447	2-D1to6	ER324337	2-R56	MS322193	3-48x	ZG322189	3-13
BC322212	3-78x	ED557447	2-D10to14	ER324337	2-R68	MZ307170	3-34	ZG322579	3-74
BD320250	3-68	EE322242	2-4	ER324337	2-R69	SA311742	3-57	ZS225134	3-59
BD320251	3-69x	EE322245	3-20	ER324337	2-R85	SB322186	3-11	ZS297641	3-40
BD320268	3-70x	EF300588	3-67x	ER324337	2-R109	SB322187	3-12x	ZS306021	3-33
BT293398	2-T4	EF309389	3-63	ES310839	3-31	SB322576	3-72	ZS308846	3-28
						00022010	J-, Z	25500040	3-20
BT307204	2-T5	EF309392	3-64x	ES322243	2-SW1,2,3	SB322577	3-73x	ZS315511	3-46
BT322177	3-42	EF315334	3-65x	ES324238	3-7	SE322188	3-10	ZS322570	3-80
BT322206	3-44x	EF602550	3-66x	ES665875	3-30x	SE322190	3-4	ZS322580	3-81x
BT322217	3-43x	EI293185	2-IC3	ET307234	2-TR24,25	SE322191	3-5 x	ZS325495	2-5
BT322218	3-45x	EI315491	2-IC4	ET316643	2-TR5to14	SE322578	3-71	ZS325495	3-27
BT444137	3-39	EI322185	2-IC2	ET316643	2-TR16to20		3-82	ZS379350	3-32
EC204671	3-35	EI322248	2-IC1	ET316643	2-TR22,23	SK322208	3-83x	ZS447840	3-50
EC301320	3-37x	EJ301513	3-26x	ET316643	2-TR27	SK324433	3-84x	ZS462194	3-41
EC313534	2-C42	EJ322246	3-21	ET322244	2-TR3,4	SP322168	3-14	ZS498273	3-89
EC314688	3-36x	EJ603685	3-19	ET322244	2-TR28	SP322169	3-16x	ZS565942	3-58
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EC315335	2-C45	EL322234	3-62	ET452531	2-TR21	SP322170	3-15x	ZW281463	3-22
EC435690	2-C44	EL322236	3-60	ET618873	2-TR1,2	SP322171	3-17x	ZW305013	3-85x
EC513990	2-C31	EO307186	2-T2	EV550023	2-VR2.3	SP322172	3-18x	ZW436026	3-52
EC513990	2-C32	EO322239	2-T3	EV551452	2-VR4,5	SP322182	3-8	ZW554624	3-53
EC514001	2-C83	EO322241	2-T6	EV593368	2-VR1	SP322183	3-9x	ZW698308	3-6
EC616342	2-DVC1,2	EO539820	2-L1	EV604438	2-VR6	SP322202	3-56		0 0
EC672287		ER307196	2-R132	EW302995	3-87x	SZ322214	3-49		
EC672287	2-C32	ER307201	2-FL1,2	EW305691	3-25x	TA307160	3-55		
ED237960	2-D8	ER322181	2-FL4,5	EW306428	3-24	TA320234	3-61		
ED315367	2-D7	ER322237	2-FL3	EW315767	3-86x	TA322204	3-75		

2. MODEL AM-U02

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No						
BA319362		ED562386	5-D1	ES322776	6-SW1	SP319998	8-64	ZS463353	8-36
BA320135	2-3	EF300579	8-59x	ES324344	2-SW1,2	SP319999	8-70x	ZS468101	8-91
BA320136	2-4	EF300581	8-60x	ES324348	7-SW1to6	SP322526	8-4	ZS498273	2-6
BA320192	2-1	EF300583	8-58x	ES655806	8-25	SP322527	8-7x	ZS522865	8-13
BT322571	8-42	EF300583	8-63x	ES665875	8-27x	SP322528	8-6x	ZS565942	8-99
BT322572	8-45x	EF306949	8-53	ET310148	2-TR10	SP322529	8-8x	ZW265983	8-95x
BT322573	8-44x	EF306950	8-56x	ET322244	2-TR7	SP322530	8-9x	ZW270088	8-83
BT322574	8-46x	EF306951	8-54x	ET322598	2-TR11	SP322560	8-97	ZW270123	8-38
BT322575	8-47x	EF306954	8-57x	ET322775	2-TR1	SP322561	8-100	ZW305013	8-22x
BT323582	8-43x	EF306954	8-62x	ET322775	2-TR4to6	SP322562	8-102x	ZW322110	8-39
EC204671	8-29x	EF306956	8-55x	ET322775	5-TR1,2	SP322563	8-101x	ZW324157	8-92x
EC301320	8-32x	EF311839	8-61	ET322778	2-TR2,3	SP323583	8-5 x	ZW324158	8-93x
EC306988	6-C3	EI322583	8-1	ET322778	2-TR8,9	SZ322544	8-84	ZW324159	8-94x
EC314688	8-31x	E1322587	2-IC2	EV322781	3-V R 2	SZ322545	8-87	ZW324161	8-96x
EC320307	2-C33to36	EI322588	2-IC1	EV322789	5-V R 1	TA322261	8-40	ZW413267	8-49
EC321173	6-C2	E1322588	3-IC1	EV324345	3-VR3,4	TA322534	8-68	ZW616004	3-88
EC321302	8-30x	El322599	5-IC1	EV324346	3-VR1	TA322535	8-71x	ZW652408	8-11
EC322290	2-C22	EI322791	4-IC1	EW305691	8-1 8x	TA322536	8-69	ZW698308	8-35
EC322788	2-C7	EJ293365	2-J2,3	EW306427	8-17x	TA322537	8-72x	ZW698308	8-52
EC322800	2-C8	EJ293376	2-J4	EW306428	8-16x	TA322546	8-85		
EC323260	C7	EJ296853	8-19x	EZ225145	8-21	TA322547	8-86x		
EC324376	2-C10	EJ301199	8-41	EZ631945	8-15	TA646773	8-37		
EC324376	3-C2	EJ322581	8-12	SA311742	8-98	ZG322566	8-78		
EC324376	3-C4	EJ322582	8-14	SB322557	8-76	ZG322579	8-75		
EC324378	7-C3	EJ325358	8-10	SB322558	8-77x	ZS308846	8-51		
EC324379	2-C3	EJ554578	8-23	SB322576	8-73	ZS322402	8-89		
EC324379	2-C13	EJ698051	2-J1	SB322577	8-74x	ZS322570	8-103		
EC326583	2-C23,24	EM322584	4-IND1	SE322538	8-79	ZS322580	8-104x		
EC657044	5-C1	EO650823	2-L1	SE322539	8-80x	ZS325495	5-1		
ED214457	2-D4	ER311673	2-R33,34	SE322549	8-67	ZS325495	8-24		
ED214457	2-D9	ER317686	2-R4	SE322559	8-66	ZS422076	2-7		
ED316143	2-D1to3	ER322293	2-R5	SE322578	8-65	ZS422076	3-1		
ED316143	5-D2	ER322294	2-R6	SK319996	8-81	ZS422076	4-1		
ED322589	2-D5,6	ER322590	2-R30	SK319997	8-82x	ZS422076	8-33		
ED322772	8-34	ER322787	2-R49,50	SK322550	8-105	ZS424056	8-48		
ED322773	8-90	ER324337	2-R48	SK322551	8-106x	ZS434250	8-50x		
ED322774	4-D1	ER511288	7-R1	SK322553	8-107	ZS447840	2-5		
ED322810	4-D2	ES310839	8-28x	SK322554	8-108x	ZS447840	8-3		
ED323530	5-D3	ES315159	8-26x	SK322555	8-109	ZS462802	8-2		
ED557111	2-D7,8	ES322586	2-SW3	SK322556	8-110x	ZS463353	8-20x		

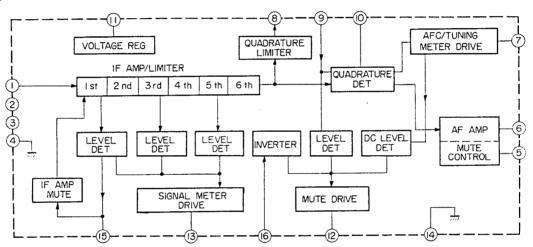
SECTION 4

SCHEMATIC DIAGRAM

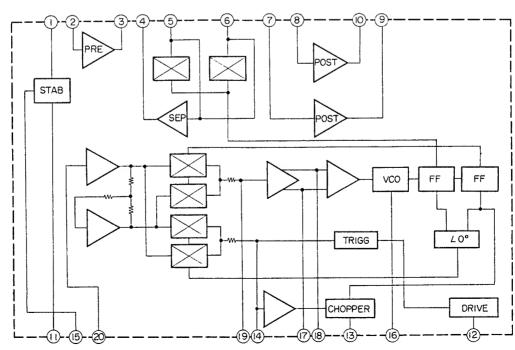
- 1. SCHEMATIC DIAGRAM OF ICs
- 2. AT-K02 NO. 1582437A SCHEMATIC DIAGRAM
- 3. AM-U02 NO. 1582436A SCHEMATIC DIAGRAM

MODEL AT-K02

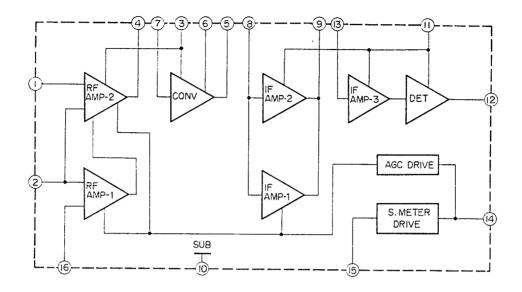
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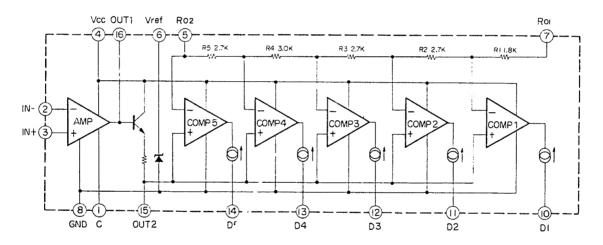
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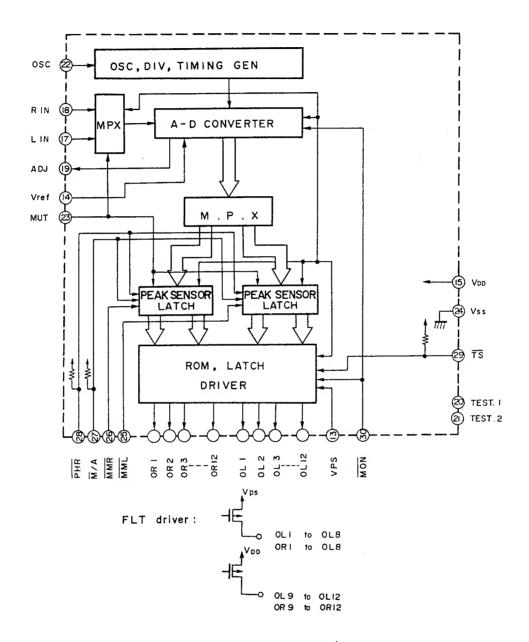


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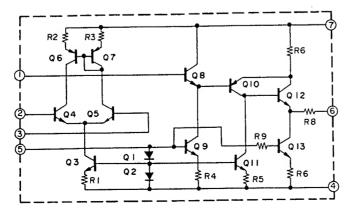


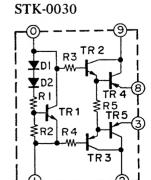
MODEL AM-U02

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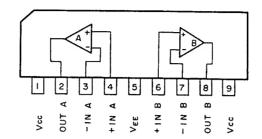


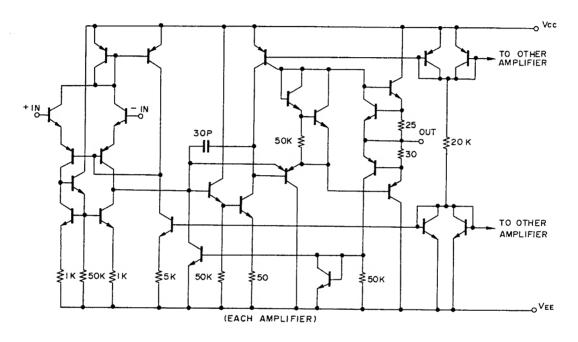




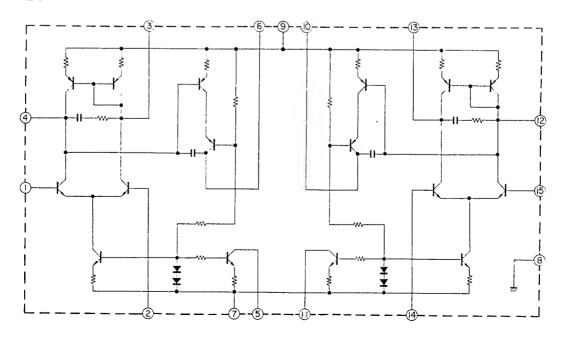


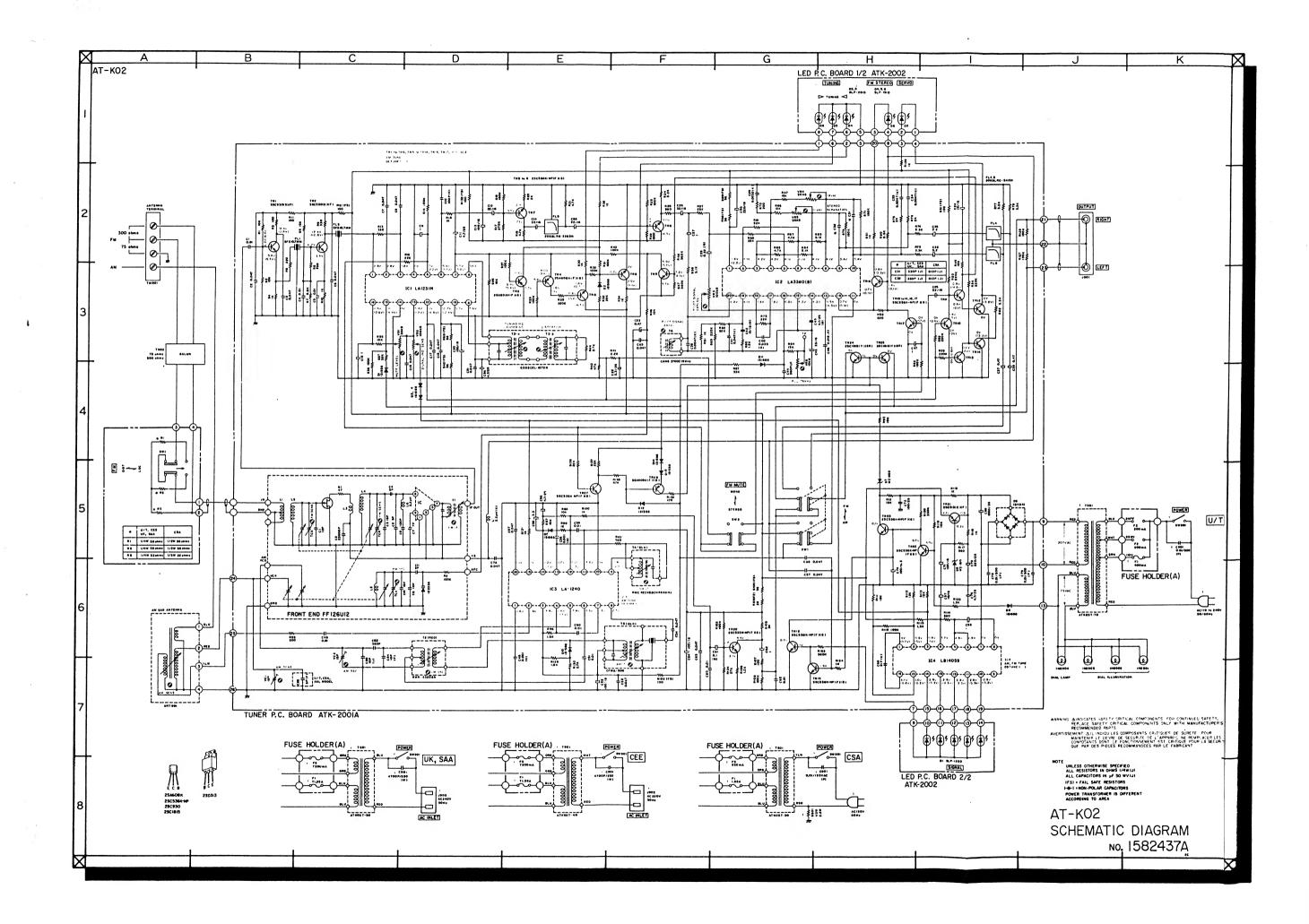
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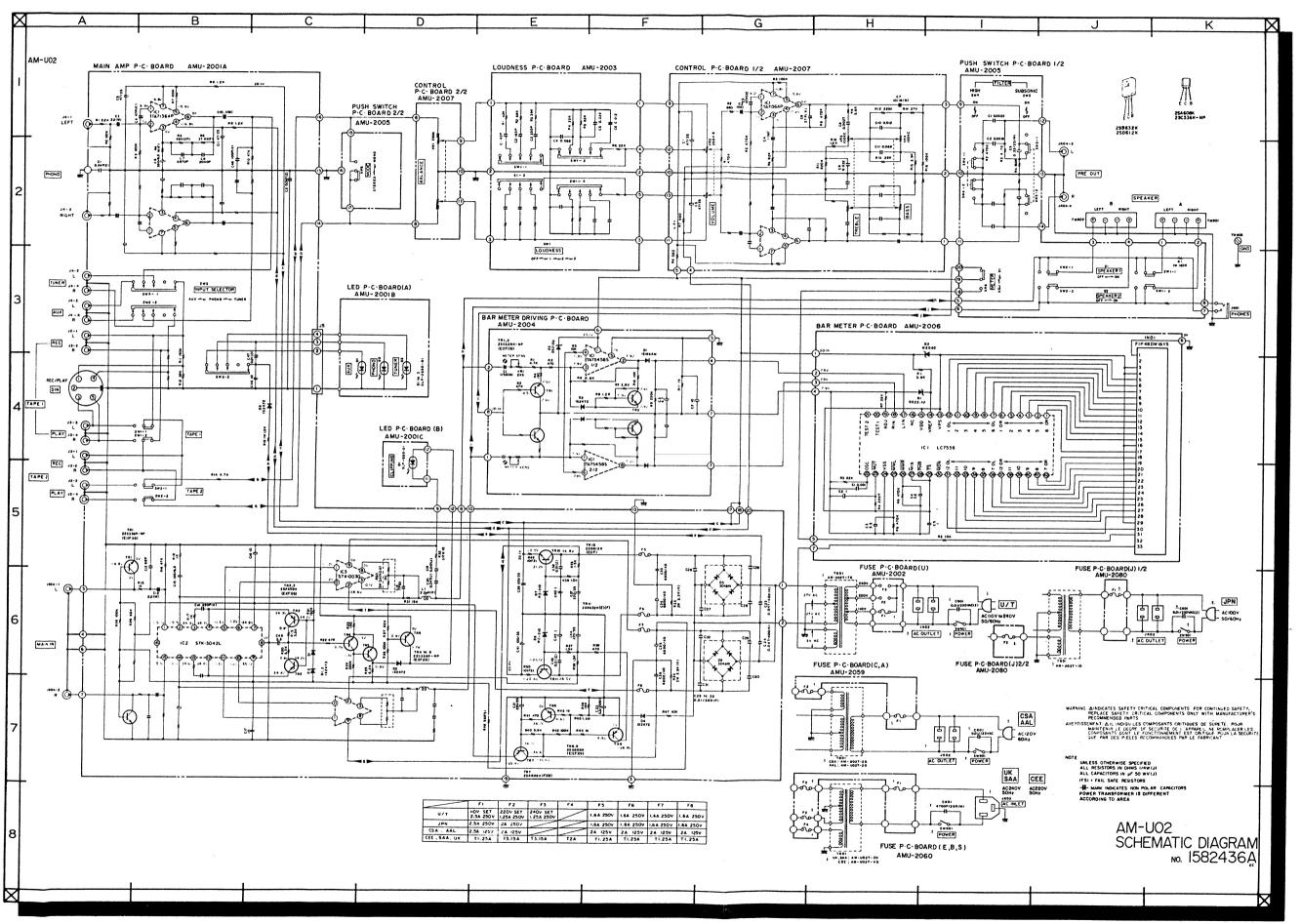




STK-3042L

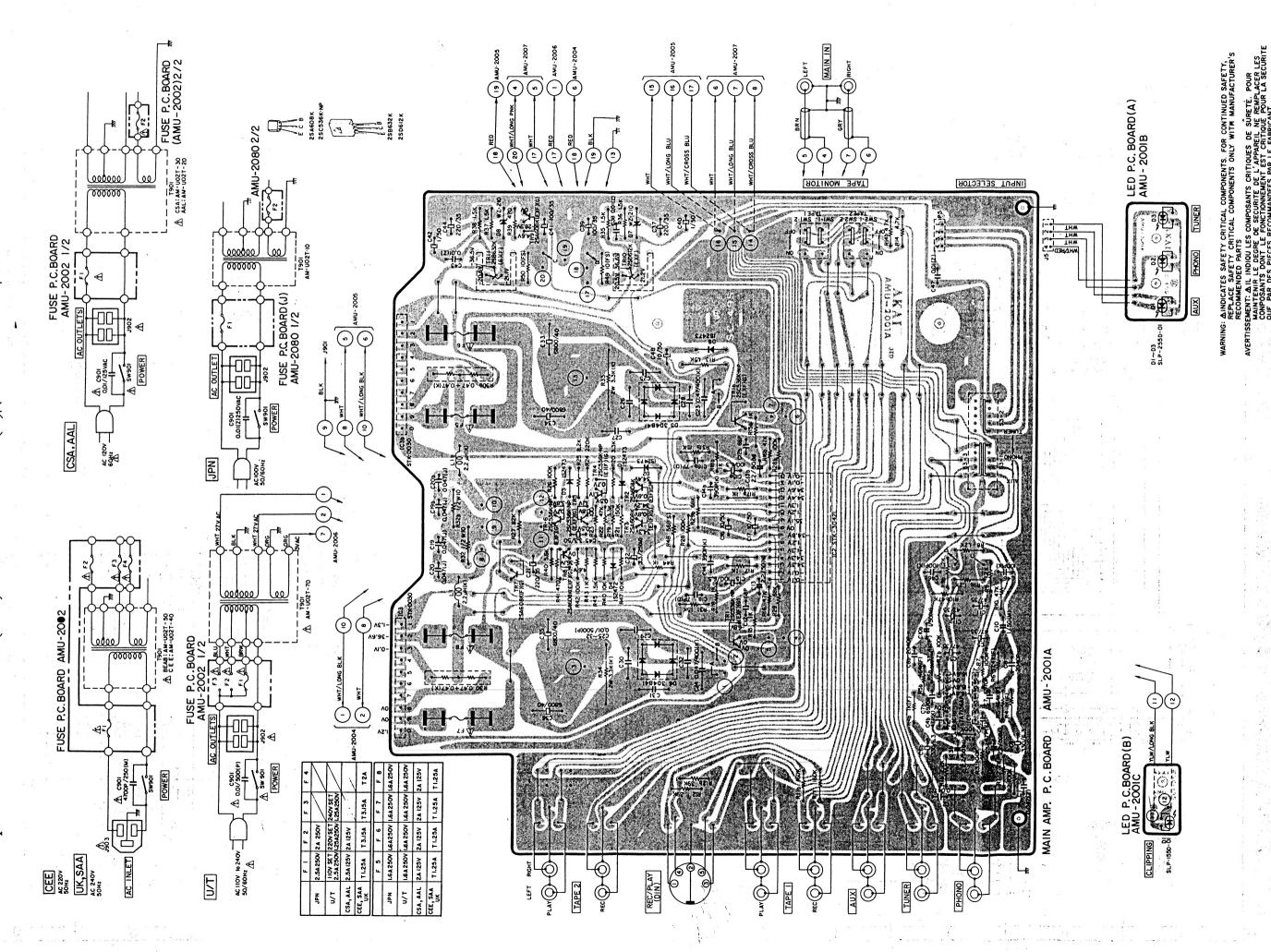


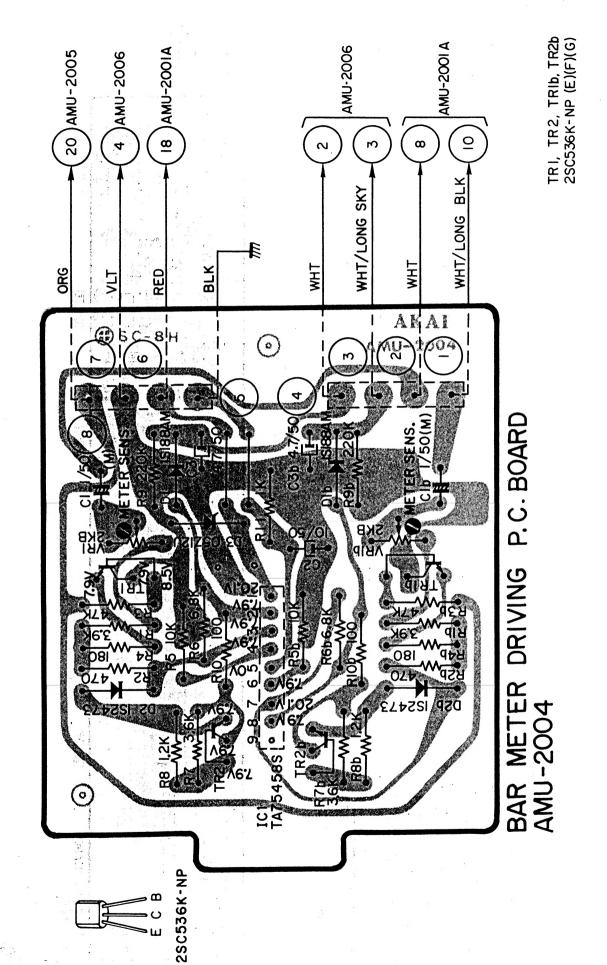




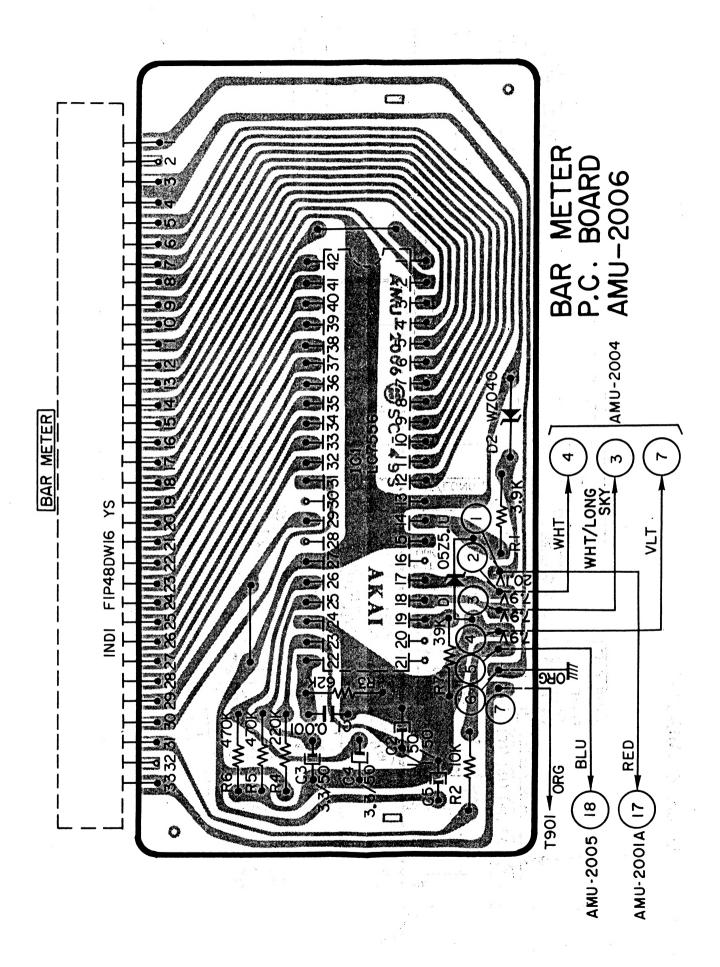
COMPOSITION OF VARIOUS P.C BOARDS

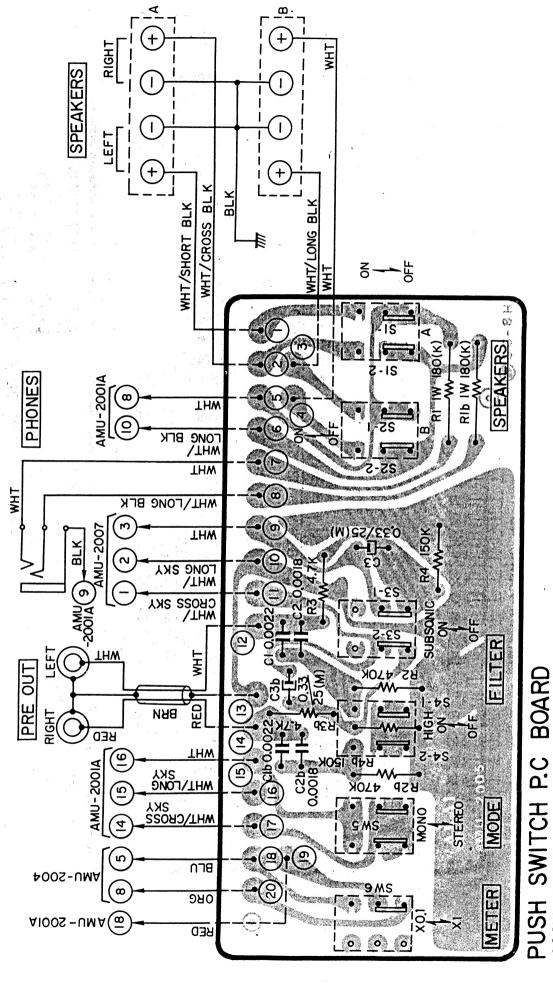
Main Amp. P.C Board AMU-2001A (3ED) and LED P.C Board (A)/(B) AMU-2001B/C





Bar Meter P.C Board AMU-2006





PUSH SWITCH P.C AMU-2005

Loudness P.C Board AMU-2003 and Control P.C Board AMU-2007

